



Standard Power Supplies from Delta for Industrial & Medical Applications



Product overview

DELTA CLIQ SERIES DIN RAIL POWER SUPPLY					
VOLTAGE	CURRENT	POWER	PART-NUMBER	PHASE	PAGE
12V	1.25A	15W	DRP012V015W1AZ	1	5
12V	2.5A	30W	DRP012V030W1AZ	1	5
12V	5.0A	60W	DRP012V060W1AA	1	7
12V	8.33A	100W	DRP012V100W1AA	1	7
24V	2.5A	60W	DRP024V060W1AZ	1	9
24V	2.5A	60W	DRP024V060W1AA	1	11
24V	2.5A	60W	DRP024V060W3AA	3	11
24V	5.0A	120W	DRP024V120W1AA	1	13
24V	5.0A	120W	DRP024V120W3AA	3	13
24V	10.0A	240W	DRP024V240W1AA	1	15
24V	10.0A	240W	DRP024V240W3AA	3	15
24V	20.0A	480W	DRP024V480W1AA	1	17
24V	20.0A	480W	DRP024V480W3AA	3	17
24V	2.5A	60W	DRP024V060W1BA	1	19
24V	5.0A	120W	DRP024V120W1BA	1	21
DELTA REDUNDANCY MODULES					
USEABLE FOR	CURRENT	VOLTAGE	PART-NUMBER	PAGE	
ClIQ & CliQ II	20A	22 - 60V	DRR-20	23	
ClIQ & CliQ II	40A	22 - 60V	DRR-40	23	
DELTA PANEL MOUNT POWER SUPPLY					
VOLTAGE	CURRENT	POWER	PART-NUMBER	PHASE	PAGE
5V	7A	35W	PMC-5V035W1AA	1	31
12V	3.0A	35W	PMC-12V035W1AA	1	33
12V	4.17A	50W	PMC-12V050W1AA	1	35
12V	8.33A	100W	PMC-12V100W1AA	1	39
24V	1.46A	35W	PMC-24V035W1AA	1	33
24V	2.10A	50W	PMC-24V050W1AA	1	35
24V	3.13A	75W	PMC-24V075W1AA	1	37
24V	4.17A	100W	PMC-24V100W1AA	1	39
24V / 5V	2.7A / 7.0A	100W	PMC-DSPV100W1A	1	41
24V	6.25A	150W	PMC-24V150W1AA	1	43
24V	12.5A	300W	PMC-24V300W1BA	1	45
DELTA MEDICAL ADAPTER POWER SUPPLY					
VOLTAGE	CURRENT	POWER	PART-NUMBER	PHASE	PAGE
12V	2.5A	30W	AMD-12V030WxyA	-	51
24V	2.5A	60W	AMD-24V060WxyA	-	53
24V	3.33A	80W	AMD-24V080WxyA	-	55

About us



Delta Group is the world’s largest provider of switching power supplies and a major source for power management solutions, components, visual displays, industrial automation, network-ing products and renewable energy solutions. Established in 1971, Delta Group has sales offices worldwide and manufac-turing plants in Taiwan, Thailand, China, Mexico and Europe.

As a global leader in power electronics, Delta is committed to environment protection and has implemented green, lead-free production and recycling and waste management programs for many years. Delta’s mission continues to be: “To provide innovative, clean and efficient energy solutions for a better tomorrow.”

With vigorous business growth of 18% per year since 1994, Delta achieved annual sales of 5.2 billion USD in 2007. Currently, Delta Electronics Group has more than 50,000 employees worldwide working in sales, R&D and manufactur-ing facilities.

Industrial & Medical Power Solutions

1 phase and 3 phase CliQ DIN rail power supplies can be used in several applications such as:

- General engine constructions
- Apparatus constructions
- Building equipments
- Wood-working machines
- Sheet-fabricating machines
- Automotive engineering
- Environmental engineering
- Construction machines
- Automation process

Panel mount power supplies are less expensive and the environmental requirements are not very high in comparison to the CliQ DIN rail power supplies. Panel mount power supplies are used for the following applications:

- Apparatus constructions
- Toolbuilding
- Lighting engineering and building equipment
- Environmental engineering
- Automation process

If the above mentioned standardized products do not meet your requirements, we can also offer custom designed power supplies for industrial and medical applications according to your needs for example for the following applications:

- Offshore applications
- Refinery
- Deep mining
- Medical applications
- Adapter solutions

Delta CliQ Series DIN Rail Power Supply

The CliQ series DIN Rail Power Supply is the latest offering from one of the world's largest leading power supply manufacturers and solution providers – Delta.

The product range offers a nominal output voltage of 12V & 24V, a wide temperature range from -20°C to +75°C and a highly dependable minimum holdup time. The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact metal case and plastic case are both shock and vibration resistant according to IEC60068-2.

The CliQ series provides overvoltage, overload and thermal protection. Using a wide input voltage range design, Delta's CliQ power supply is usable worldwide. Its output terminal type and locations are also thoughtfully designed for fast wiring and easy installation.

For more details on the product specifications, please refer to the Product Specifications section in this catalogue.



CliQ

15W & 30W 12V 1 Phase

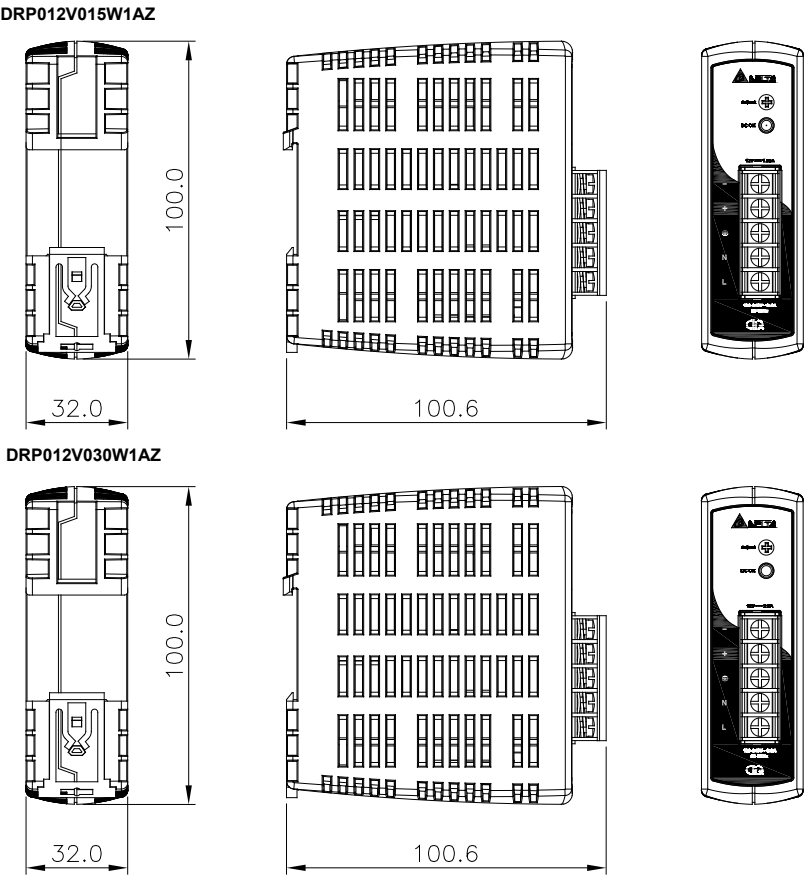


Features

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Over voltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected lifetime: 10 years
- Redundancy: Yes (with external ORing diode)
- RoHS compliant



Mechanical drawings



Technical data

OUTPUT SPECIFICATIONS	DRP012V015W1AZ	DRP012V030W1AZ
Output voltage	12V	
Output voltage range	11 - 14V	
Output current	1.25A	2.5A
Output power	15W	30W
Residual ripple / peak switching (20MHz)	< 100mV	
Mains buffering @ nominal load (typ.)	> 22ms @ 115Vac, > 110ms @ 230Vac	> 22ms @ 115Vac, > 110ms @ 230Vac
Line regulation	< 0.5% typ. (@ 85 - 264Vac input, 100% load)	
Load regulation	< 1% typ. (with rated input, 0 - 100% load)	

INPUT SPECIFICATIONS	DRP012V015W1AZ	DRP012V030W1AZ
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)	
Input frequency	47 - 63Hz	
Nominal current	0.37A @ 115Vac, 0.22A @ 230Vac	0.70A @ 115Vac, 0.42A @ 230Vac
Inrush current limitation I _{pt} (+25°C)	< 30A @ 115Vac, < 65A @ 230Vac	< 40A @ 115Vac, < 80A @ 230Vac
Power factor	Conform to EN61000-3-2 STD	
Efficiency	83.5% min. @ 115Va, 83.0% min. @ 230Vac	84.5% min. @ 115Vac & 230Vac
Leakage current	< 1mA	

MECHANICAL	DRP012V015W1AZ	DRP012V030W1AZ
Case cover	Plastic (PC)	
Dimensions (L x W x H)	100mm x 32mm x 100mm	
Unit weight / box	0.175kg	0.197kg
MTBF	> 300,000 hrs	
Noise	Sound pressure level (SPL) < 40dBA	
Cooling	Convection	
Input terminal	M3.5 x 3	
Output terminal	M3.5 x 2	
Mounting rail	Standard TS35 mounting rail	
Shock proof	IEC600068-2-27	
Vibration	IEC600068-2-6	
Protection structure	IPX0	

SAFETY	DRP012V015W1AZ	DRP012V030W1AZ
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B	
Immunity	EN55024, EN61000-6-1, -2	
Safety standard	UL/cUL listed to UL508 and CSA C22.2 No. 107.1-01, UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1, TUV-Bauart Mark to EN60950-1, EN50178: 1998, IEC62103: 2003, CB test certificate and report to IEC60950-1, CSA C22.2 No. 107.1-01, CE (EMC and Low Voltage directive) and CCC & Class I Div 2 Hazardous Locations (prepared)	
Voltage dips	Conform to EN61000-4-11	
Galvanic isolation	Input to output: 4KVac Input to ground: 1.5KVac Output to ground: 1.5KVac	
Operating ambient temperature	-20°C ~ +75°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95% RH	
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C; Operating amb. > 70°C derate power by 4% / °C	

CliQ

60W & 100W 12V 1 Phase

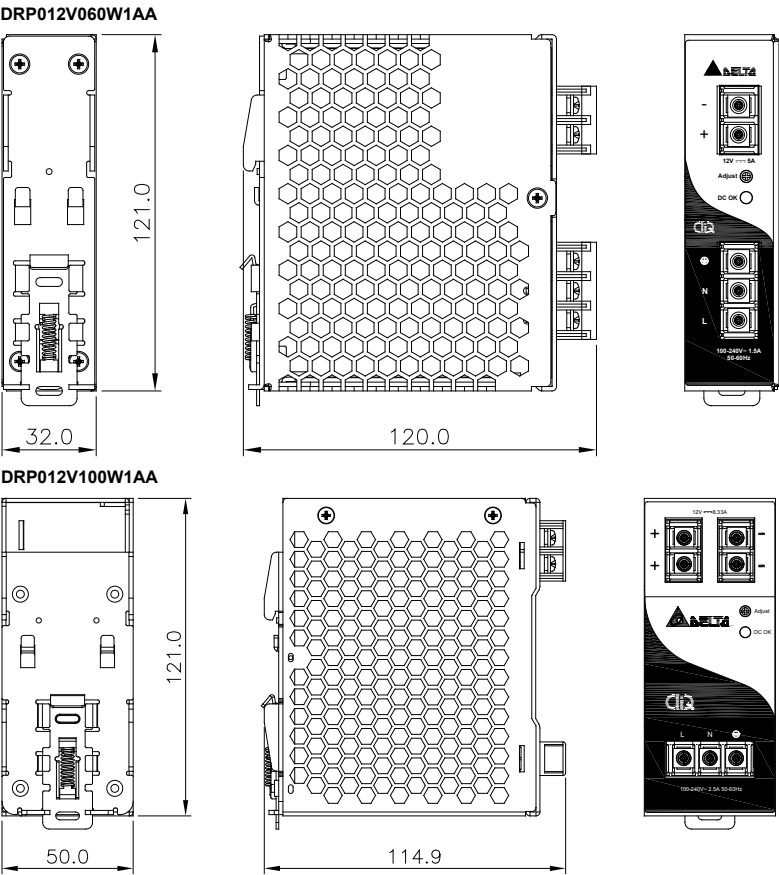


Features

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Over voltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected lifetime: 10 years
- Redundancy: Yes (with external ORing diode)
- RoHS compliant



Mechanical drawings



Technical data

OUTPUT SPECIFICATIONS	DRP012V060W1AA	DRP012V100W1AA
Output voltage	12V	
Output voltage range	11 - 14V	
Output current	5.0A	8.33A
Output power	60W	100W
Residual ripple / peak switching (20MHz)	< 100mV	
Mains buffering @ nominal load (typ.)	> 22ms @ 115Vac, > 110ms @ 230Vac	> 22ms @ 115Vac, > 105ms @ 230Vac
Line regulation	< 0.5% typ. (@ 85 - 264Vac input, 100% load)	
Load regulation	< 1% typ. (with rated input, 0 - 100% load)	

INPUT SPECIFICATIONS	DRP012V060W1AA	DRP012V100W1AA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)	
Input frequency	47 - 63Hz	
Nominal current	1.35A @ 115Vac, 0.8A @ 230Vac	2.5A @ 115Vac, 1.5A @ 230Vac
Inrush current limitation I _{pt} (+25°C)	< 50A @ 115Vac, < 100 @ 230Vac	< 100A @ 115Vac, No damage @ 230Vac
Power factor	Conform to EN61000-3-2 STD	
Efficiency	85.5% min. @ 115Vac & 230Vac	86% min. @ 115Vac; 87% min. @ 230Vac
Leakage current	< 1mA	

MECHANICAL	DRP012V060W1AA	DRP012V100W1AA
Case cover	Aluminium (Al5052)	
Dimensions (L x W x H)	121mm x 32mm x 120mm	121mm x 50mm x 118.2mm
Unit weight / box	0.325kg	0.636kg
MTBF	> 300,000 hrs	
Noise	Sound pressure level (SPL) < 40dBA	
Cooling	Convection	
Input terminal	M4 x 3	
Output terminal	M4 x 2	M4 x 2 (2 pcs)
Mounting rail	Standard TS35 mounting rail	
Shock proof	IEC600068-2-27	
Vibration	IEC600068-2-6	
Protection structure	IPX0	

SAFETY	DRP012V060W1AA	DRP012V100W1AA
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B	
Immunity	EN55024, EN61000-6-1, -2	
Safety standard	UL/cUL listed to UL508 and CSA C22.2 No. 107.1-01, UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1, TUV-Bauart Mark to EN60950-1, EN50178: 1998, IEC62103: 2003, CB test certificate and report to IEC60950-1, CSA C22.2 No. 107.1-01, CE (EMC and Low Voltage directive) and CCC & Class I Div 2 Hazardous Locations (prepared)	
Voltage dips	Conform to EN61000-4-11	
Galvanic isolation	Input to output: 4KVac Input to ground: 1.5KVac Output to ground: 1.5KVac	
Operating ambient temperature	-20°C ~ +75°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95% RH	
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C; Operating amb. > 70°C derate power by 4% / °C	

CliQ

60W 24V 1 Phase Plastic



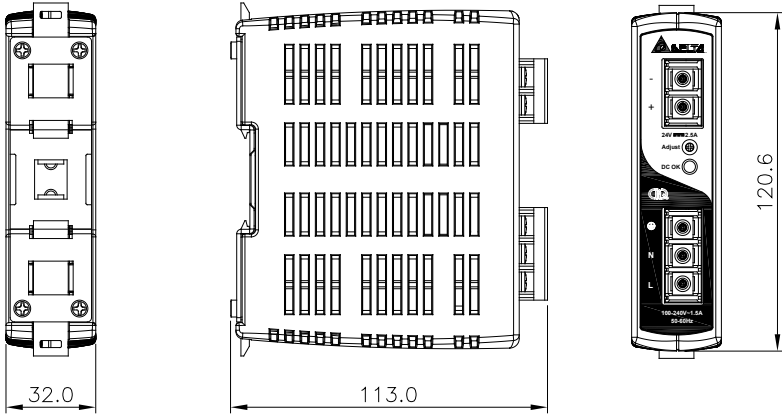
Features

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Over voltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected lifetime: 10 years
- Redundancy: Yes (with external ORing diode)
- RoHS compliant



Mechanical drawings

DRP024V060W1AZ



Technical data

OUTPUT SPECIFICATIONS	DRP024V060W1AZ
Output voltage	24V
Output voltage range	22 - 28V
Output current	2.5A
Output power	60W
Residual ripple / peak switching (20MHz)	< 50mV / < 240mVpp (@ nominal values)
Mains buffering @ nominal load (typ.)	> 20ms @ 115Vac, > 125ms @ 230Vac
Line regulation	< 0.5% typ. (@ 85 - 264Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

INPUT SPECIFICATIONS	DRP024V060W1AZ
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)
Input frequency	47 - 63Hz
Nominal current	1.1A @ 115Vac, 0.7A @ 230Vac
Inrush current limitation I _{pt} (+25°C)	< 40A @ 115Vac, < 80A @ 230Vac
Power factor	Conform to EN61000-3-2 STD
Efficiency	> 85% typ.
Leakage current	< 1mA

MECHANICAL	DRP024V060W1AZ
Case cover	Plastic (PC)
Dimensions (L x W x H)	120.6mm x 32mm x 113mm
Unit weight / box	0.325kg
MTBF	> 800,000 hrs
Noise	Sound pressure level (SPL) < 40dBA
Cooling	Convection
Input terminal	M4 x 3
Output terminal	M4 x 2
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC600068-2-27
Vibration	IEC600068-2-6
Protection structure	IPX0

SAFETY	DRP024V060W1AZ
EMC / Emissions	Class B / EN55022, CISPR22, Class B; FCC Title 47; EN61204-3 (Class B on AC & Class A on DC side), EN55022:2006 Class B, EN61000-3-2:2006, EN61000-3-3:1995/A1:2001/A2:2005
Immunity	EN55024:1998/A1:2001/A2:2003
Safety standard	UL508, CSA C22.2 No.107.1-01, UL60950-1, CSA C22.2 No.60950-1, IEC60950-1, EN60950-1, EN50178, IEC62103 and IEC60204-1 
Voltage dips	Conform to EN61000-4-11
Galvanic isolation	Input to output: 4KVac Input to ground: 1.5KVac Output to ground: 1.5KVac
Operating ambient temperature	-20°C ~ +75°C *
Storage temperature	-25°C ~ +85°C
Operating humidity	< 95%
Note (*)	Operating amb. < 0°C until -20°C derate power by 1% / °C; Operating amb. > 50°C derate power by 2.5% / °C; Operating amb. > 70°C derate power by 4% / °C

CliQ
60W 24V 1 & 3 Phase



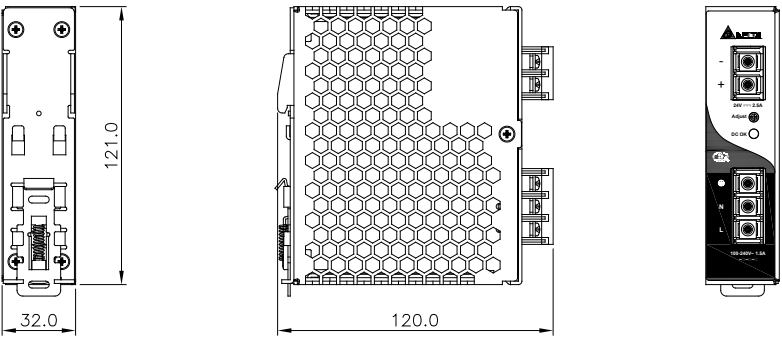
Features

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Over voltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected lifetime: 10 years
- Redundancy: Yes (with external ORing diode)
- RoHS compliant

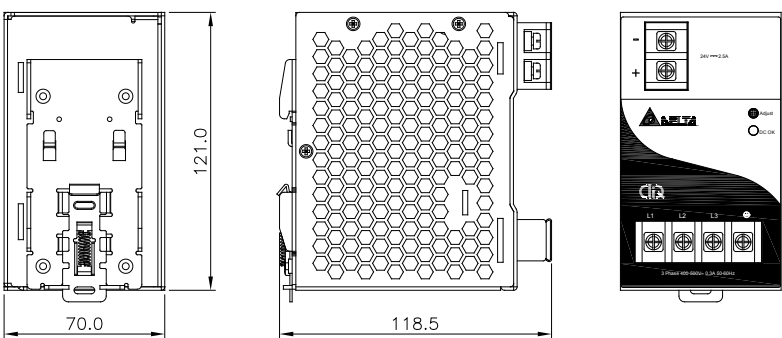


Mechanical drawings

DRP024V060W1AA



DRP024V060W3AA



Technical data

OUTPUT SPECIFICATIONS	DRP024V060W1AA	DRP024V060W3AA
Output voltage	24V	
Output voltage range	22 - 28V	
Output current	2.5A	
Output power	60W	
Residual ripple / peak switching (20MHz)	< 50mV / < 240mVpp (@ nominal values)	
Mains buffering @ nominal load (typ.)	> 20ms @ 115Vac, > 125ms @ 230Vac	> 30ms @ 3 x 400Vac, > 60ms @ 3 x 500Vac
Line regulation	< 0.5% typ. (@ 85 - 264Vac input, 100% load)	< 0.5% typ. (@ 320 - 575Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)	

INPUT SPECIFICATIONS	DRP024V060W1AA	DRP024V060W3AA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)	320 - 575Vac (DC input range 450 - 800Vdc)
Input frequency	47 - 63Hz	
Nominal current	1.1A @ 115Vac, 0.7A @ 230Vac	0.3A @ 400Vac approx.
Inrush current limitation I _{pk} (+25°C)	< 40A @ 115Vac, < 80A @ 230Vac	< 30A @ 400Vac & 500Vac
Power factor	Conform to EN61000-3-2 STD	
Efficiency	> 85% typ.	> 86% @ 3 x 400Vac, > 85% @ 3 x 500Vac
Leakage current	< 1mA	< 3.5mA

MECHANICAL	DRP024V060W1AA	DRP024V060W3AA
Case cover	Aluminium (Al5052)	
Dimensions (L x W x H)	121mm x 32mm x 120mm	121mm x 70mm x 118.5mm
Unit weight / box	0.370kg	0.560kg
MTBF	> 800,000 hrs	> 500,000 hrs.
Noise	Sound pressure level (SPL) < 40dBA	
Cooling	Convection	
Input terminal	M4 x 3	M4 x 4; 600V rating
Output terminal	M4 x 2	M4 x 2 (2 pcs.); 600V rating
Mounting rail	Standard TS35 mounting rail	
Shock proof	IEC600068-2-27	
Vibration	IEC600068-2-6	
Protection structure	IPX0	

SAFETY	DRP024V060W1AA	DRP024V060W3AA
EMC / Emissions	Class B / EN55022, CISPR22, CISPR11 Class B; FCC Title 47; EN61204-3 (Class B on AC & Class A on DC side), EN55022:2006 Class B, EN61000-3-2:2006, EN61000-3-3:1995/A1:2001/A2:2005	
Immunity	EN55024:1998/A1:2001/A2:2003	
Safety standard	UL508, CSA C22.2 No.107.1-01, UL60950-1, CSA C22.2 No.60950-1, IEC60950-1, EN60950-1, EN50178, IEC62103, IEC60204-1, cCSAus to CSA C22.2 No.213-M1987, ANSI/ISA 12.12.01:2007 Class I Division 2 Hazardous Location / ATEX	
Voltage dips	Conform to EN61000-4-11	
Galvanic isolation	Input to output: 4KVac Input to ground: 1.5KVac Output to ground: 1.5KVac	
Operating ambient temperature	-20°C ~ +75°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95%	
Note (*)	Operating amb. < 0°C until -20°C derate power by 1% / °C; Operating amb. > 50°C derate power by 2.5% / °C;	

CliQ

120W 24V 1 & 3 Phase



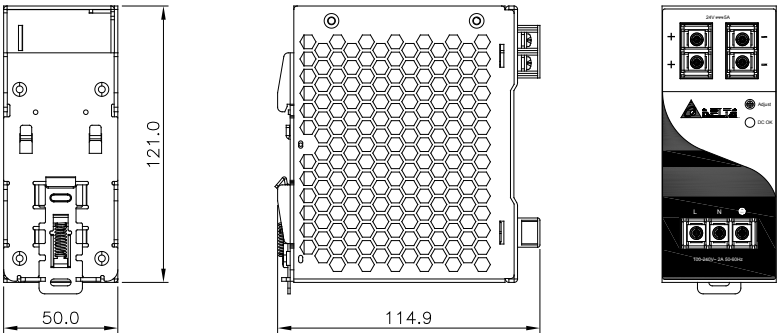
Features

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Over voltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected lifetime: 10 years
- Redundancy: Yes (with external ORing diode)
- RoHS compliant

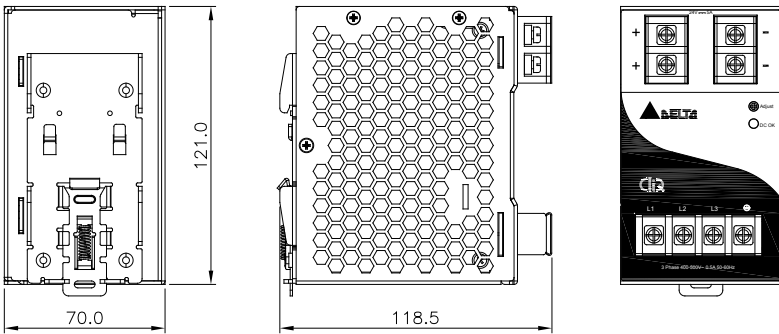


Mechanical drawings

DRP024V120W1AA



DRP024V120W3AA



Technical data

OUTPUT SPECIFICATIONS	DRP024V120W1AA	DRP024V120W3AA
Output voltage	24V	
Output voltage range	22 - 28V	
Output current	5.0A	
Output power	120W	
Residual ripple / peak switching (20MHz)	< 50mV / < 240mVpp (@ nominal values)	
Mains buffering @ nominal load (typ.)	> 35ms @ 115Vac, > 70ms @ 230Vac	> 35ms @ 3 x 400Vac, > 70ms @ 3 x 500Vac
Line regulation	< 0.5% typ. (@ 85 - 264Vac input, 100% load)	< 0.5% typ. (@ 320 - 575Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)	

INPUT SPECIFICATIONS	DRP024V120W1AA	DRP024V120W3AA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)	320 - 575Vac (DC input range 450 - 800Vdc)
Input frequency	47 - 63Hz	
Nominal current	1.4A @ 115Vac, 0.8A @ 230Vac	0.5A @ 400Vac approx.
Inrush current limitation I _{pk} (+25°C)	< 80A @ 115Vac	< 30A @ 400Vac & 500Vac
Power factor	Conform to EN61000-3-2 STD	
Efficiency	> 84% typ.	> 86% @ 3 x 400Vac, > 85% @ 3 x 500Vac
Leakage current	< 1mA	< 3.5mA

MECHANICAL	DRP024V120W1AA	DRP024V120W3AA
Case cover	Aluminium (Al5052)	
Dimensions (L x W x H)	121mm x 50mm x 118.2mm	121mm x 70mm x 118.5mm
Unit weight / box	0.540kg	0.720kg
MTBF	> 800,000 hrs	> 500,000 hrs.
Noise	Sound pressure level (SPL) < 40dBA	
Cooling	Convection	
Input terminal	M4 x 3	M4 x 4; 600V rating
Output terminal	M4 x 2 (2 pcs.)	M4 x 2 (2 pcs.); 600V rating
Mounting rail	Standard TS35 mounting rail	
Shock proof	IEC600068-2-27	
Vibration	IEC600068-2-6	
Protection structure	IPX0	

SAFETY	DRP024V120W1AA	DRP024V120W3AA
EMC / Emissions	Class B / EN55022, CISPR22, CISPR11 Class B; FCC Title 47; EN61204-3 (Class B on AC & Class A on DC side), EN55022:2006 Class B, EN61000-3-2:2006, EN61000-3-3:1995/A1:2001/A2:2005	
Immunity	EN55024:1998/A1:2001/A2:2003	
Safety standard	UL508, CSA C22.2 No.107.1-01, UL60950-1, CSA C22.2 No.60950-1, IEC60950-1, EN60950-1, EN50178, IEC62103, IEC60204-1, cCSAus to CSA C22.2 No.213-M1987, ANSI/ISA 12.12.01:2007 Class I Division 2 Hazardous Location / ATEX	
Voltage dips	Conform to EN61000-4-11	
Galvanic isolation	Input to output: 4KVac Input to ground: 1.5KVac Output to ground: 1.5KVac	
Operating ambient temperature	-20°C ~ +75°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95%	
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C	Operating amb. > 50°C derate power by 2.5% / °C

CliQ

240W 24V 1 & 3 Phase



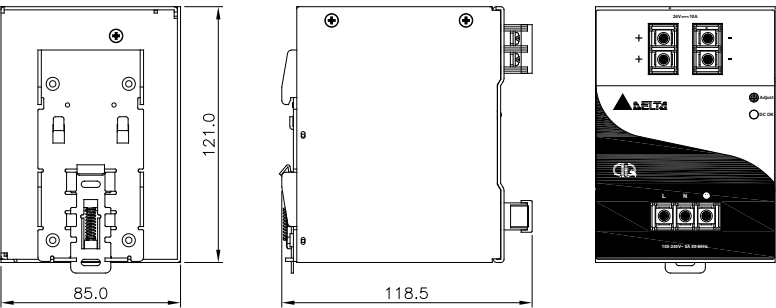
Features

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Over voltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected lifetime: 10 years
- Redundancy: Yes (with external ORing diode)
- RoHS compliant

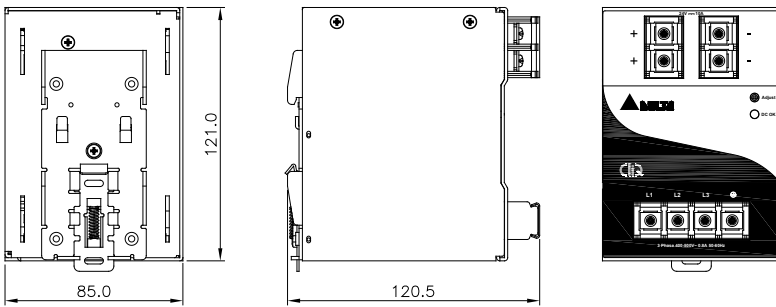


Mechanical drawings

DRP024V240W1AA



DRP024V240W3AA



Technical data

OUTPUT SPECIFICATIONS	DRP024V240W1AA	DRP024V240W3AA
Output voltage	24V	
Output voltage range	22 - 28V	
Output current	10.0A	
Output power	240W	
Residual ripple / peak switching (20MHz)	< 50mV / < 240mVpp (@ nominal values)	
Mains buffering @ nominal load (typ.)	> 20ms @ 115Vac & 230Vac	> 35ms @ 3 x 400Vac, > 60ms @ 3 x 500Vac
Line regulation	< 0.5% typ. (@ 85 - 264Vac input, 100% load)	< 0.5% typ. (@ 320 - 575Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)	

INPUT SPECIFICATIONS	DRP024V240W1AA	DRP024V240W3AA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)	320 - 575Vac (DC input range 450 - 800Vdc)
Input frequency	47 - 63Hz	
Nominal current	2.9A @ 115Vac, 1.5A @ 230Vac	0.8A @ 400Vac approx.
Inrush current limitation I _{pt} (+25°C)	No damage & I _{pt} rating at all I/P devices shall not exceed their rating	< 40A @ 400Vac & 500Vac
Power factor	Conform to EN61000-3-2 STD	
Efficiency	> 84% typ.	> 87% @ 3 x 400Vac, > 86% @ 3 x 500Vac
Leakage current	< 3.5mA	< 3.5mA

MECHANICAL	DRP024V240W1AA	DRP024V240W3AA
Case cover	Aluminium (Al5052)	
Dimensions (L x W x H)	121mm x 85mm x 118.5mm	121mm x 85mm x 120.5mm
Unit weight / box	1.040kg	0.990kg
MTBF	> 300,000 hrs	
Noise	Sound pressure level (SPL) < 40dBA	
Cooling	Convection	
Input terminal	M4 x 3	M4 x 4; 600V rating
Output terminal	M4 x 2 (2 pcs.)	M4 x 2 (2 pcs.); 600V rating
Mounting rail	Standard TS35 mounting rail	
Shock proof	IEC600068-2-27	
Vibration	IEC600068-2-6	
Protection structure	IPX0	

SAFETY	DRP024V240W1AA	DRP024V240W3AA
EMC / Emissions	Class B / EN55022, CISPR22, CISPR11 Class B; FCC Title 47; EN61204-3 (Class B on AC & Class A on DC side), EN55022:2006 Class B, EN61000-3-2:2006, EN61000-3-3:1995/A1:2001/A2:2005	
Immunity	EN55024:1998/A1:2001/A2:2003	
Safety standard	UL508, CSA C22.2 No.107.1-01, UL60950-1, CSA C22.2 No.60950-1, IEC60950-1, EN60950-1, EN50178, IEC62103, IEC60204-1, cCSAus to CSA C22.2 No.213-M1987, ANSI/ISA 12.12.01:2007 Class I Division 2 Hazardous Location / ATEX	
Voltage dips	Conform to EN61000-4-11	
Galvanic isolation	Input to output: 4kVac Input to ground: 1.5kVac Output to ground: 1.5kVac	
Operating ambient temperature	-20°C ~ +75°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95%	
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C; Operating amb. > 70°C derate power by 4% / °C	

CliQ

480W 24V 1 & 3 Phase



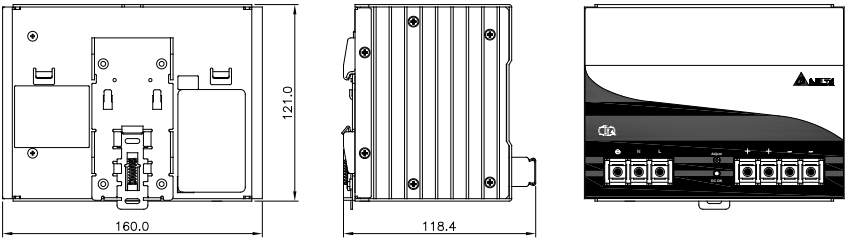
Features

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Over voltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected lifetime: 10 years
- Redundancy: Yes (with external ORing diode)
- RoHS compliant

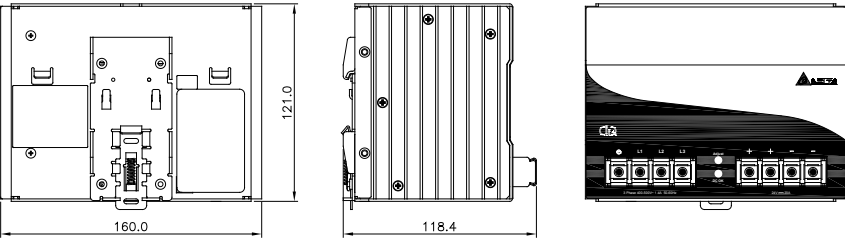


Mechanical drawings

DRP024V480W1AA



DRP024V480W3AA



Technical data

OUTPUT SPECIFICATIONS	DRP024V480W1AA	DRP024V480W3AA
Output voltage	24V	
Output voltage range	22 - 28V	
Output current	20.0A	
Output power	480W	
Residual ripple / peak switching (20MHz)	< 50mV / < 240mVpp (@ nominal values)	
Mains buffering @ nominal load (typ.)	> 20ms @ 115Vac & 230Vac	> 25ms @ 3 x 400Vac, > 50ms @ 3 x 500Vac
Line regulation	< 0.5% typ. (@ 85 - 264Vac input, 100% load)	< 0.5% typ. (@ 320 - 575Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)	

INPUT SPECIFICATIONS	DRP024V480W1AA	DRP024V480W3AA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)	320 - 575Vac (DC input range 450 - 800Vdc)
Input frequency	47 - 63Hz	
Nominal current	5.7A @ 115Vac, 2.8A @ 230Vac	1.6A @ 400Vac approx.
Inrush current limitation I _{pt} (+25°C)	No damage & I _{pt} rating at all I/P devices shall not exceed their rating	< 50A @ 400Vac & 500Vac
Power factor	Conform to EN61000-3-2 STD	
Efficiency	> 86% typ.	> 87% @ 3 x 400Vac, > 86% @ 3 x 500Vac
Leakage current	< 1.25mA	< 3.5mA

MECHANICAL	DRP024V480W1AA	DRP024V480W3AA
Case cover	Aluminium (Al5052)	
Dimensions (L x W x H)	121mm x 160mm x 118.5mm	
Unit weight / box	1.800kg	1.710kg
MTBF	> 300,000 hrs	
Noise	Sound pressure level (SPL) < 40dBA	
Cooling	Convection	
Input terminal	M4 x 3	M4 x 4; 600V rating
Output terminal	M4 x 2 (2 pcs.)	M4 x 2 (2 pcs.); 600V rating
Mounting rail	Standard TS35 mounting rail	
Shock proof	IEC600068-2-27	
Vibration	IEC600068-2-6	
Protection structure	IPX0	

SAFETY	DRP024V480W1AA	DRP024V480W3AA
EMC / Emissions	Class B / EN55022, CISPR22, CISPR11 Class B; FCC Title 47; EN61204-3 (Class B on AC & Class A on DC side), EN55022:2006 Class B, EN61000-3-2:2006, EN61000-3-3:1995/A1:2001/A2:2005	
Immunity	EN55024:1998/A1:2001/A2:2003	
Safety standard	UL508, CSA C22.2 No.107.1-01, UL60950-1, CSA C22.2 No.60950-1, IEC60950-1, EN60950-1, EN50178, IEC62103, IEC60204-1, cCSAus to CSA C22.2 No.213-M1987, ANSI/ISA 12.12.01:2007 Class I Division 2 Hazardous Location / ATEX	
Voltage dips	Conform to EN61000-4-11	
Galvanic isolation	Input to output: 4kVac Input to ground: 1.5kVac Output to ground: 1.5kVac	
Operating ambient temperature	-20°C ~ +75°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95%	
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C	Operating amb. > 50°C derate power by 2.5% / °C

CliQ II
60W 24V 1 Phase



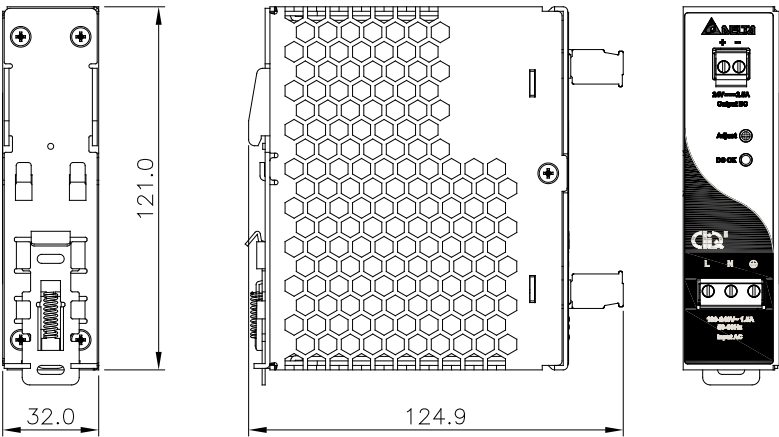
Features

- Ease of wire connection to terminals
- Pluggable connectors for fast wiring and easy installations
- Compact design for easy handling
- Overload, over voltage and thermal protection
- Power boost 150% for 5 sec.
- Expected lifetime: 10 years
- Redundancy: Yes (with DRR-20A & DRR-40A)
- Efficiency > 89% typ.
- 3 year warranty
- RoHS compliant
- Meet Energy Star Level V
- Compliant with IP20



Mechanical drawings

DRP024V060W1BA



Technical data

OUTPUT SPECIFICATIONS	DRP024V060W1BA
Output voltage	24V
Output voltage range	24 - 28V
Output current	2.5A
Output power	60W
Residual ripple / peak switching (20MHz)	< 50mVpp / 150mVpp @ 85Vac to 264Vac input @ 25°C
Mains buffering @ nominal load (typ.)	> 20ms @ 115Vac; > 125ms @ 230Vac & full load 60W (25°C)
Line regulation	< 0.5% typ. (@ 85 - 264Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

INPUT SPECIFICATIONS	DRP024V060W1BA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)
Input frequency	47 - 63Hz
Nominal current	1.4A @ 115VAC, 0.8A @ 230VAC
Inrush current limitation I _{pt} (+25°C)	< 20A @ 115VAC, < 35A @ 230VAC
Power factor	Conform to EN61000-3-2 STD. Class A limits
Efficiency	89% min. @ 115Vac & 230Vac
Leakage current	< 1mA @ 240Vac

MECHANICAL	DRP024V060W1BA
Case cover	Aluminium (Al5052)
Dimensions (L x W x H)	121mm x 32mm x 125mm
Unit weight / box	0.37kg
MTBF	> 1,000,000 hrs
Noise	Sound pressure level (SPL) < 40dBA
Cooling	Convection
Input terminal	Pluggable connector 3 Pin (300V, 15A)
Output terminal	Pluggable connector 2 Pin (300V, 15A)
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC600068-2-27
Vibration	IEC600068-2-6
Protection structure	IP20

SAFETY	DRP024V060W1BA
EMC / Emissions	Class B / EN55022, CISPR22, CISPR11 Class B; FCC Title 47; EN61204-3 (Class B on AC & Class A on DC side), EN55022: 2006 Class B, EN61000-3-2: 2006, EN61000-3-3: 2008
Immunity	EN55024, EN61000-6-1, -2
Safety standard	UL/cUL Listed to UL508 and CSA C22.2 no. 107.1-01, UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1, TUV Bauart to EN60950-1, EN50178: 1997 and IEC62103: 2003, CB test certificate and report to IEC60950-1, CE (EMC and Low Voltage directive) and CSA to CSA C22.2 No. 107.1-01.[CCC & Class I Div 2 Hazardous Locations (prepared)]
Voltage dips	Conform to EN61000-4-11
Galvanic isolation	Input to output: 4KVac Input to ground: 1.5KVac Output to ground: 1.5KVac
Operating ambient temperature	- 20°C ~ +80°C *
Storage temperature	-25°C ~ +85°C
Operating humidity	< 95 % RH non-condensing
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C

CliQ II

120W 24V 1 Phase



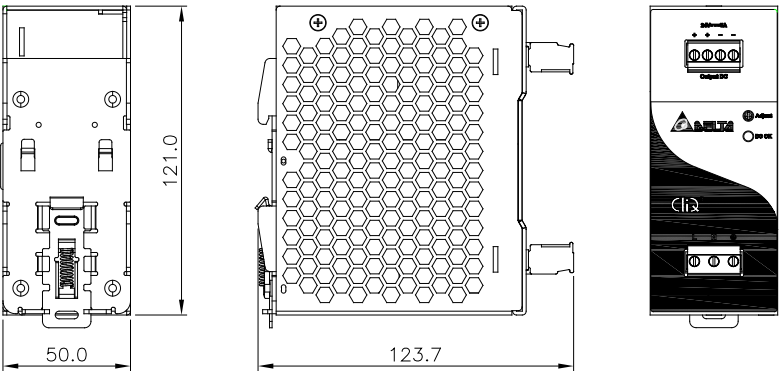
Features

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload, over voltage and thermal protection
- Power boost 150% for 5 sec.
- Expected lifetime: 10 years
- Redundancy: Yes (with external ORing diode)
- Efficiency > 88% typ.
- 3 year warranty
- RoHS compliant



Mechanical drawings

DRP024V120W1BA



Technical data

OUTPUT SPECIFICATIONS	DRP024V120W1BA
Output voltage	24V
Output voltage range	24 - 28V
Output current	5A
Output power	120W
Residual ripple / peak switching (20MHz)	< 50mVpp / 150mVpp @ 85Vac to 264Vac input @ 25°C
Mains buffering @ nominal load (typ.)	> 20ms @ 115Vac; > 115ms @ 230Vac & full load 120W (25°C)
Line regulation	< 0.5% typ. (@ 85 - 264Vac input, 100% load)
Load regulation	< 1% typ. (with rated input, 0 - 100% load)

INPUT SPECIFICATIONS	DRP024V120W1BA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)
Input frequency	47 - 63Hz
Nominal current	2.2A max. @ 115Vac, 1.1A max. @ 230Vac
Inrush current limitation I _{pt} (+25°C)	< 35A @ 115Vac and 230Vac
Power factor	Conform to EN61000-3-2 STD. Class A limits
Efficiency	89% min. @ 115Vac & 230Vac
Leakage current	< 1mA @ 240Vac

MECHANICAL	DRP024V120W1BA
Case cover	Aluminium (Al5052)
Dimensions (L x W x H)	121mm x 50mm x 123.1mm
Unit weight / box	0.72kg
MTBF	> 800,000 hrs
Noise	Sound pressure level (SPL) < 40dBA
Cooling	Convection
Input terminal	Pluggable connector 3 Pin (300V, 15A)
Output terminal	Pluggable connector 4 Pin (300V, 15A)
Mounting rail	Standard TS35 mounting rail
Shock proof	IEC600068-2-27
Vibration	IEC600068-2-6
Protection structure	IP20

SAFETY	DRP024V120W1BA
EMC / Emissions	Class B / EN55022, CISPR22, CISPR11 Class B; FCC Title 47; EN61204-3 (Class B on AC & Class A on DC side), EN55022: 2006 Class B, EN61000-3-2: 2006, EN61000-3-3: 2008
Immunity	EN55024, EN61000-6-1, -2
Safety standard	UL/cUL Listed to UL508 and CSA C22.2 no. 107.1-01, UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1, TUV Bauart to EN60950-1, EN50178: 1997 and IEC62103: 2003, CB test certificate and report to IEC60950-1, CE (EMC and Low Voltage directive) and CSA to CSA C22.2 No. 107.1-01.[CCC & Class I Div 2 Hazardous Locations (prepared)]
Voltage dips	Conform to EN61000-4-11
Galvanic isolation	Input to output: 4KVac Input to ground: 1.5KVac Output to ground: 1.5KVac
Operating ambient temperature	-20°C ~ +80°C *
Storage temperature	-25°C ~ +85°C
Operating humidity	< 95 % RH non-condensing
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C

CliQ II

20A & 40A Redundancy Modules

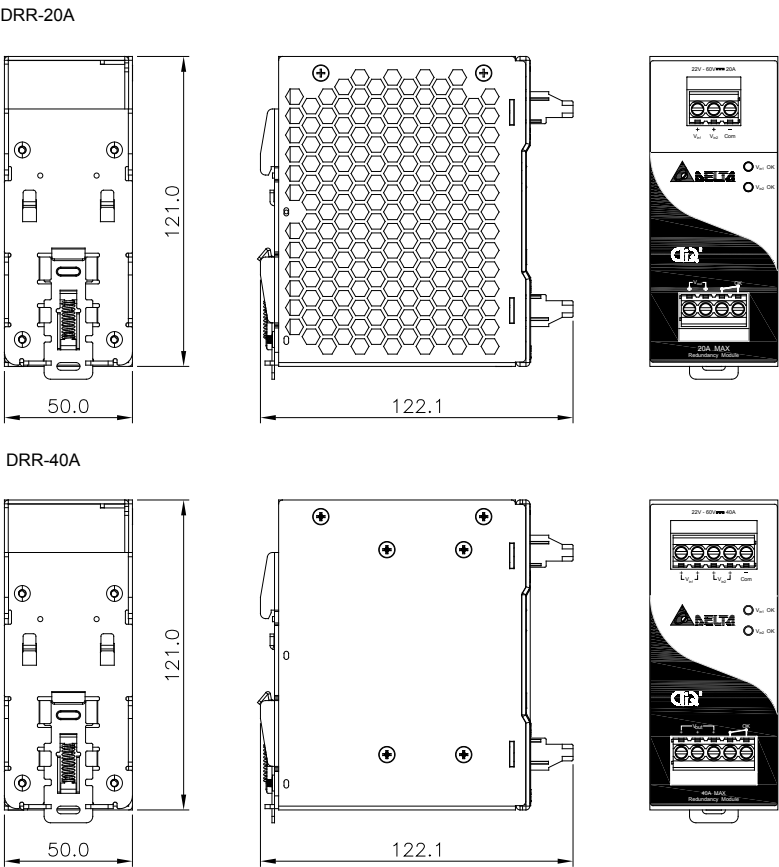


Features

- Full corrosion resistance aluminium chassis even with deep scratches caused by rugged handling
- Wide Input Range
- Built-in DC OK signal & relay
- Compliant with IP20
- 3 year warranty
- RoHS compliant



Mechanical drawings



Technical data

OUTPUT SPECIFICATIONS	DRR-20A	DRR-40A
Output current	Normal mode = 0 - 20Amps; Short circuit or Overload = 25Amps max.	Normal mode = 0 - 40Amps; Short circuit or Overload = 50Amps max.
Voltage drop (Vin - Vout)	Typical 0.65V	

INPUT SPECIFICATIONS	DRR-20A	DRR-40A
Input voltage range	22 - 60Vdc	
Input current	(1+1 Redundancy) = Nom. 2 x 12.5Amps (N+1 Redundancy) = Nom. 2 x 10Amps (Single use) = Nom. 20Amps	(1+1 Redundancy) = Nom. 2 x 25Amps (N+1 Redundancy) = Nom. 2 x 20Amps (Single use) = Nom. 40Amps

MECHANICAL	DRR-20A	DRR-40A
Case cover	Aluminium (AL1100F)	
Dimensions (L x W x H)	50mm x 121mm x 120mm	
Unit weight / box	0.375kg	0.515kg
MTBF	> 800,000 hrs	
Signals	Green LED DC OK	
Protection structure	IP20	

SAFETY	DRR-20A	DRR-40A
Safety standard	UR/cUR recognize to UL60950-1, UL508, SIQ to EN60950-1, EN50178: 1998, IEC60204-1: 1998 and IEC62103: 2003, CB test certificate and report to IEC60950-1, CE (EMC and Low Voltage directive) and RoHS directive, WEEE directive [CCC & Class I Div 2 Hazardous Locations (prepared)]	
	    	
Operating ambient temperature	-20°C ~ +80°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95% RH non-condensing	
Isolation against housing	Terminal - Chassis Min. 500Vdc, >100MOhms @ 25°C & 70% RH	
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C	

CliQ

Product specification

1 Phase 12V CliQ DIN Rail Power Supply				1 Phase 24V CliQ DIN Rail Power Supply						
OUTPUT (DC)	DRP012V015W1AZ	DRP012V030W1AZ	DRP012V060W1AA	DRP012V100W1AA	DRP024V060W1AZ	DRP024V060W1AA	DRP024V120W1AA	DRP024V240W1AA	DRP024V480W1AA	
Output voltage	12V				24V					
Output voltage range	11 - 14V				22 - 28V					
Output current	1.25A	2.5A	5.0A	8.33A	2.5A		5.0A	10.0A	20.0A	
Output power	15W	30W	60W	100W	60W		120W	240W	480W	
Residual ripple / peak switching (20MHz)	< 100mV				< 50mV / < 240mVpp (@ nominal values)					
Mains buffering @ nominal load (typ.)	> 22ms @ 115Vac; > 110ms @ 230Vac			> 22ms @ 115Vac; > 105ms @ 230Vac	> 20ms @ 115Vac, > 125ms @ 230Vac		> 35ms @ 115Vac, > 70ms @ 230Vac	> 20ms @ 115Vac & 230Vac		
Line regulation					< 0.5% typ. (@ 85 - 264Vac input, 100% load)					
Load regulation					< 1% typ. (with rated input, 0 - 100% load)					
INPUT (AC)										
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)									
Input frequency	47 - 63Hz									
Nominal current	0.37A @ 115Vac, 0.22A @ 230Vac	0.70A @ 115Vac, 0.42A @ 230Vac	1.35A @ 115Vac, 0.8A @ 230Vac	2.5A @ 115Vac, 1.5A @ 230Vac	1.1A @ 115Vac, 0.7A @ 230Vac		1.4A @ 115Vac, 0.8A @ 230Vac	2.9A @ 115Vac, 1.5A @ 230Vac	5.7A @ 115Vac, 2.8A @ 230Vac	
Inrush current limitation I²t (+25°C) typ.	< 30A @ 115Vac, < 65A @ 230Vac	< 40A @ 115Vac, < 80A @ 230Vac	< 50A @ 115Vac, < 100A @ 230Vac	< 100A @ 115Vac, No damage @ 230Vac	< 40A @ 115Vac, < 80A @ 230Vac		< 80A @ 115Vac	No damage & I²t rating at all I/P devices shall not exceed their rating		
Power factor	Conform to EN61000-3-2 STD									
Efficiency	83.5% min. @ 115Va, 83.0% min. @ 230Vac	84.5% min. @ 115Vac & 230Vac	85.5% min. @ 115Vac & 230Vac	86% min. @ 115Vac; 87% min. @ 230Vac	> 85% typ.		> 84% typ.		> 86% typ.	
Leakage current					< 1mA			< 3.5mA		< 1.25mA
MECHANICAL										
Case cover	Plastic (PC)		Aluminium (Al5052)		Plastic (PC)		Aluminium (Al5052)			
Dimensions (L x W x H)	100mm x 32mm x 100mm		121mm x 32mm x 120mm	121mm x 50mm x 118.2mm	120.6mm x 32mm x 113mm	121mm x 32mm x 120mm	121mm x 50mm x 118.2mm	121mm x 85mm x 118.5mm	121mm x 160mm x 118.5mm	
Unit weight / box	0.175kg	0.197kg	0.325kg	0.636kg	0.325kg	0.370kg	0.540kg	1.040kg	1.800kg	
MTBF	> 300,000 hrs				> 800,000 hrs			> 300,000 hrs		
Noise					Sound pressure level (SPL) < 40dBA					
Cooling					Convection					
Input terminal	M3.5 x 3		M4 x 3		M4 x 3					
Output terminal	M3.5 x 2		M4 x 2	M4 x 2 (2 pcs)	M4 x 2		M4 x 2 (2 pcs.)			
Mounting rail					Standard TS35 mounting rail					
Shock proof					IEC60068-2-27					
Vibration					IEC60068-2-6					
Protection structure					IPX0					
SAFETY										
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B				Class B / EN55022, CISPR22, Class B; FCC Title 47; EN61204-3 (Class B on AC & Class A on DC side), EN55022:2006 Class B, EN61000-3-2:2006, EN61000-3-3:1995/A1:2001/A2:2005					
Immunity	EN55024, EN61000-6-1, -2				EN55024:1998/A1:2001/A2:2003					
Safety standard	UL/cUL listed to UL508 and CSA C22.2 No. 107.1-01, UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1, TUV-Bauart Mark to EN60950-1, EN50178:1998, IEC62103: 2003, CB test certificate and report to IEC60950-1, CSA C22.2 No. 107.1-01, CE (EMC and Low Voltage directive) and CCC & Class I Div 2 Hazardous Locations (prepared) 				UL508, CSA C22.2 No.107.1-01, UL60950-1, CSA C22.2 No.60950-1, IEC60950-1, EN60950-1, EN50178, IEC62103 and IEC60204-1 		UL508, CSA C22.2 No.107.1-01, UL60950-1, CSA C22.2 No.60950-1, IEC60950-1, EN60950-1, EN50178, IEC62103, IEC60204-1, cCSAus to CSA C22.2 No.213-M1987, ANSI/ISA 12.12.01:2007 Class I Division 2 Hazardous Location / ATEX 			
Voltage dips					Conform to EN61000-4-11					
Galvanic isolation					Input to output: 4KVac Input to ground: 1.5KVac Output to ground: 1.5KVac					
Operating ambient temperature					-20°C ~ +75°C *					
Storage temperature	-25°C ~ +85°C				-25°C ~ +85°C					
Operating humidity					< 95% RH					
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C; Operating amb. > 70°C derate power by 4% / °C				Operating amb. < 0°C until -20°C derate power by 1% / °C; Operating amb. > 50°C derate power by 2.5% / °C; Operating amb. > 70°C derate power by 4% / °C Operating amb. < 0°C until -20°C derate power by 1% / °C; Operating amb. > 50°C derate power by 2.5% / °C; Operating amb. > 50°C derate power by 2.5% / °C Operating amb. > 50°C derate power by 4% / °C Operating amb. > 70°C derate power by 2.5% / °C					
Reference no.	EOE11010156	EOE11010158	EOE11010159	EOE11010160	D0116888	EOE11010006	EOE12010002	EOE12010005	EOE13010007	

CliQ
Product specification

3 Phase CliQ DIN Rail Power Supply				
OUTPUT (DC)	DRP024V060W3AA	DRP024V120W3AA	DRP024V240W3AA	DRP024V480W3AA
Output voltage	24V			
Output voltage range	22 - 28V			
Output current	2.5A	5.0A	10.0A	20.0A
Output power	60W	120W	240W	480W
Residual ripple / peak switching (20MHz)	< 50mV / < 240mVpp (@ nominal values)			
Mains buffering @ nominal load (typ.)	> 30ms @ 3 x 400Vac, > 60ms @ 3 x 500Vac	> 35ms @ 3 x 400Vac, > 70ms @ 3 x 500Vac	> 35ms @ 3 x 400Vac, > 60ms @ 3 x 500Vac	> 25ms @ 3 x 400Vac, > 50ms @ 3 x 500Vac
Line regulation	< 0.5% typ. (@ 320 - 575Vac input, 100% load)			
Load regulation	< 1% typ. (with rated input, 0 - 100% load)			
INPUT (AC)				
Input voltage range	320 - 575Vac (DC input range 450 - 800Vdc)			
Input frequency	47 - 63Hz			
Nominal current	0.3A @ 400Vac approx.	0.5A @ 400Vac approx.	0.8A @ 400Vac approx.	1.6A @ 400Vac approx.
Inrush current limitation I ^{pt} (+25°C) typ.	< 30A @ 400Vac & 500Vac		< 40A @ 400Vac & 500Vac	< 50A @ 400Vac & 500Vac
Power factor	Conform to EN61000-3-2 STD			
Efficiency	> 86% @ 3 x 400Vac, > 85% @ 3 x 500Vac		> 87% @ 3 x 400Vac, > 86% @ 3 x 500Vac	
Leakage current	< 3.5mA			
MECHANICAL				
Case cover	Aluminium (Al5052)			
Dimensions (L x W x H)	121mm x 70mm x 118.5mm		121mm x 85mm x 120.5mm	121mm x 160mm x 118.5mm
Unit weight / box	0.560kg	0.720kg	0.990kg	1.710kg
MTBF	> 500,000 hrs.		> 300,000 hrs	
Noise	Sound pressure level (SPL) < 40dBA			
Cooling	Convection			
Input terminal	M4 x 4; 600V rating			
Output terminal	M4 x 2 (2 pcs.); 600V rating			
Mounting rail	Standard TS35 mounting rail			
Shock proof	IEC600068-2-27			
Vibration	IEC600068-2-6			
Protection structure	IPX0			
SAFETY				
EMC / Emissions	Class B / EN55022, CISPR22, CISPR11 Class B; FCC Title 47; EN61204-3 (Class B on AC & Class A on DC side), EN55022:2006 Class B, EN61000-3-2:2006, EN61000-3-3:1995/A1:2001/A2:2005			
Immunity	EN55024:1998/A1:2001/A2:2003			
Safety standard	UL508, CSA C22.2 No.107.1-01, UL60950-1, CSA C22.2 No.60950-1, IEC60950-1, EN60950-1, EN50178, IEC62103, IEC60204-1, cCSAus to CSA C22.2 No.213-M1987, ANSI/ISA 12.12.01: 2007 Class I Division 2 Hazardous Location / ATEX			
				
Voltage dips	Conform to EN61000-4-11			
Galvanic isolation	Input to output: 4KVac Input to ground: 1.5KVac Output to ground: 1.5KVac			
Operating ambient temperature	-20°C ~ +75°C *			
Storage temperature	-25°C ~ +85°C			
Operating humidity	< 95%			
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C		Operating amb. > 50°C derate power by 2.5% / °C; Operating amb. > 70°C derate power by 4% / °C	Operating amb. > 50°C derate power by 2.5% / °C
Reference no.	EOE11010007	EOE12010006	EOE12010007	EOE13010010

CliQ II
Product specification

CliQ II DIN Rail Power Supply		
OUTPUT (DC)	DRP024V060W1BA	DRP024V120W1BA
Output voltage	24V	
Output voltage range	24 - 28V	
Output current	2.5A	5.0A
Output power	60W	120W
Residual ripple / peak switching (20MHz)	< 50mVpp @ 85Vac to 264Vac input @ 25°C	
Mains buffering @ nominal load (typ.)	> 20ms @ 115Vac, > 125ms @ 230Vac & full load 60W (25°C)	> 20ms @ 115Vac, > 115ms @ 230Vac & full load 60W (25°C)
Line regulation	< 0.5% typ. (@ 85 - 264Vac input, 100% load)	
Load regulation	< 1% typ. (with rated input, 0 - 100% load)	
INPUT (AC)		
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)	
Input frequency	47 - 63Hz	
Nominal current	1.5A max. @ 115Vac, 1.0A max. @ 230Vac	2.2A max. @ 115Vac, 1.2A max. @ 230Vac
Inrush current limitation I _p t (+25°C) typ.	< 35A @ 230Vac	
Power factor	NA	Conform to EN61000-3-2 STD, Class A limits
Efficiency	> 89% min. @ 115Vac & 230Vac	> 88% min. @ 115Vac & 230Vac
Leakage current	< 1mA @ 240Vac	< 1mA @ 240Vac
MECHANICAL		
Case cover	Aluminium (Al5052)	
Dimensions (L x W x H)	121mm x 32mm x 125mm	121mm x 50mm x 123.1mm
Unit weight / box	0.370kg	0.720kg
MTBF	> 1,000,000 hrs.	> 800,000 hrs.
Noise	Sound pressure level (SPL) < 40dBA	
Cooling	Convection	
Input terminal	Pluggable connector 3 Pin (300V, 15A)	
Output terminal	Pluggable connector 2 Pin (300V, 15A)	Pluggable connector 4 Pin (300V, 15A)
Mounting rail	Standard TS35 mounting rail	
Shock proof	IEC600068-2-27	
Vibration	IEC600068-2-6	
Protection structure	IP20	
SAFETY		
EMC / Emissions	Class B / EN55022, CISPR22, CISPR11 Class B; FCC Title 47; EN61204-3 (Class B on AC & Class A on DC side), EN55022: 2006 Class B, EN61000-3-2: 2006, EN61000-3-3: 2008	
Immunity	EN55024, EN61000-6-1, -2	
Safety standard	UL/cUL Listed to UL508 and CSA C22.2 no. 107.1-01, UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1, TUV Bauart to EN60950-1, EN50178: 1997 and IEC62103: 2003, CB test certificate and report to IEC60950-1, CE (EMC and Low Voltage directive) and CSA to CSA C22.2 No. 107.1-01.[CCC & Class I Div 2 Hazardous Locations (prepared)]	
		
Voltage dips	Conform to EN61000-4-11	
Galvanic isolation	Input to output: 4KVac Input to ground: 1.5KVac Output to ground: 1.5KVac	
Operating ambient temperature	-20°C ~ +80°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95% RH non-condensing	
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C	
Reference no.	EOE11010248	EOE12010249

CliQ II Redundancy Modules		
OUTPUT (DC)	DRR-20A	DRR-40A
Output current	Normal mode = 0 - 20Amps; Short circuit or Overload = 25Amps max.	Normal mode = 0 - 40Amps; Short circuit or Overload = 50Amps max.
Voltage drop (Vin - Vout)	Typical 0.65V	
INPUT (AC)		
Input voltage range	22 - 60Vdc	
Input current	(1+1 Redundancy) = Nom. 2 x 12.5Amps (N+1 Redundancy) = Nom. 2 x 10Amps (Single use) = Nom. 20Amps	(1+1 Redundancy) = Nom. 2 x 25Amps (N+1 Redundancy) = Nom. 2 x 20Amps (Single use) = Nom. 40Amps
MECHANICAL		
Case cover	Aluminium (AL1100F)	
Dimensions (L x W x H)	50mm x 121mm x 120mm	
Unit weight / box	0.375kg	0.515kg
MTBF	> 800,000 hrs	
Signals	Green LED DC OK	
Protection structure	IP20	
SAFETY		
Safety standard	UR/cUR recognize to UL60950-1, UL508, SIQ to EN60950-1, EN50178: 1998, IEC60204-1: 1998 and IEC62103: 2003, CB test certificate and report to IEC60950-1, CE (EMC and Low Voltage directive) and RoHS directive, WEEE directive [CCC & Class I Div 2 Hazardous Locations (prepared)]	
	   	
Operating ambient temp.	-20°C ~ +80°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95% RH non-condensing	
Isolation against housing	Terminal - Chassis min. 500Vdc, >100MOhms @ 25°C & 70% RH	
Note (*)	Operating amb. > 50°C derate power by 2.5% / °C	
Reference no.	EOE21010284	EOE21010285

Delta Panel Mount Power Supply

The Panel Mount Power Supply is the latest offering from one of the world's largest leading power supply manufacturers and solution providers – Delta. The product range offers nominal output voltages of 12V and 24V, a wide temperature range from -10°C to +70°C and a highly dependable minimum holdup time. The state-of-the-art design is made to withstand harsh industrial environments. What makes the product stand out from the crowd is its lightweight full aluminum body design which can withstand shock and vibration according to IEC60068-2.

Delta's panel mount power supply also offers overvoltage and overload protection. Using a wide input voltage range design, it is compatible worldwide. The input also includes DC operating voltage from 120-375Vdc. Best of all, this excellent design and quality does not come with a big price tag.



Panel Mount

35W 5V 1 Phase



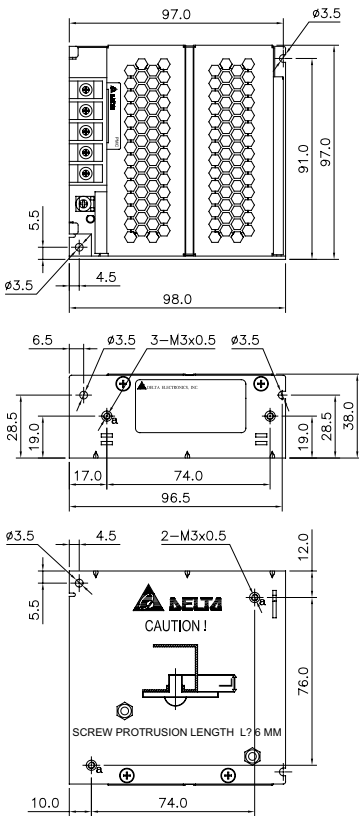
Features

- Full aluminium casing for lightweight and corrosion resistant handling
- Universal AC input
- Overload protection
- Over voltage protection
- Thermal protection
- MTBF: > 700,000 hrs.
- Efficiency: > 85% typ.
- Expected lifetime: 10 years
- 2 years warranty
- RoHS compliant



Mechanical drawings

PMC-05V035W1AA



Technical data

OUTPUT SPECIFICATIONS	PMC-05V035W1AA
Output voltage	5V
Output voltage range	4.75 - 5.5V
Output current	7.0A
Output power	35W
Residual ripple / peak switching (20MHz)	< 70mVpp @ 25°C; < 150mVpp @ nominal values
Mains buffering @ nominal load (typ.)	> 80ms @ 230Vac, > 15ms @ 115Vac, 25°C
Line regulation	< 0.5% typical (@ 85-264Vac input, 100% load)
Load regulation	< 1% typical (@ 85-264Vac input, 0 to 100 % load)

INPUT SPECIFICATIONS	PMC-05V035W1AA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)
Input frequency	47 - 63Hz
Maximum input current	1.0A max. (0.9A @ 115Vac, 0.5A @ 230Vac)
Inrush current limitation I _{pt} (+25°C)	< 30A @ 115Vac; < 60A @ 230Vac
Power factor	NA
Efficiency	78% @ 115Vac, 79% @ 230Vac
Leakage current	< 1mA @ 240Vac

MECHANICAL	PMC-05V035W1AA
Case cover	Aluminium (Al1100)
Dimensions (L x W x H)	98mm x 97mm x 38mm
Unit weight / box	0.175kg
MTBF	> 700,000 hrs
Noise	Sound pressure level (SPL) < 40dBA
Cooling	Convection
Input terminal	Terminal block 5 Pin rated 300V/20A
Output terminal	Terminal block 5 Pin rated 300V/20A
Input / output wire	AWG 18-14
Shock proof	IEC600068-2-27
Vibration	IEC600068-2-6
Protection structure	IPX0

SAFETY	PMC-05V035W1AA
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B
Immunity	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8, EN61000-3-2, 1994
Safety standard	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1/ EN60950-1, CE, SIQ, CCC prepared (EMC and Low Voltage directive) 
Voltage dips	Conform to EN61000-4-11
Galvanic isolation	Input to output: 3KVac Input to ground: 1.5KVac Output to ground: 0.5KVac
Operating ambient temperature	-10°C ~ +70°C *
Storage temperature	-25°C ~ +85°C
Operating humidity	< 95% RH
Note (*)	Operating to 70°C possible with a linear derating to half power from 50°C to 70°C

Panel Mount

35W 12V & 24V 1 Phase

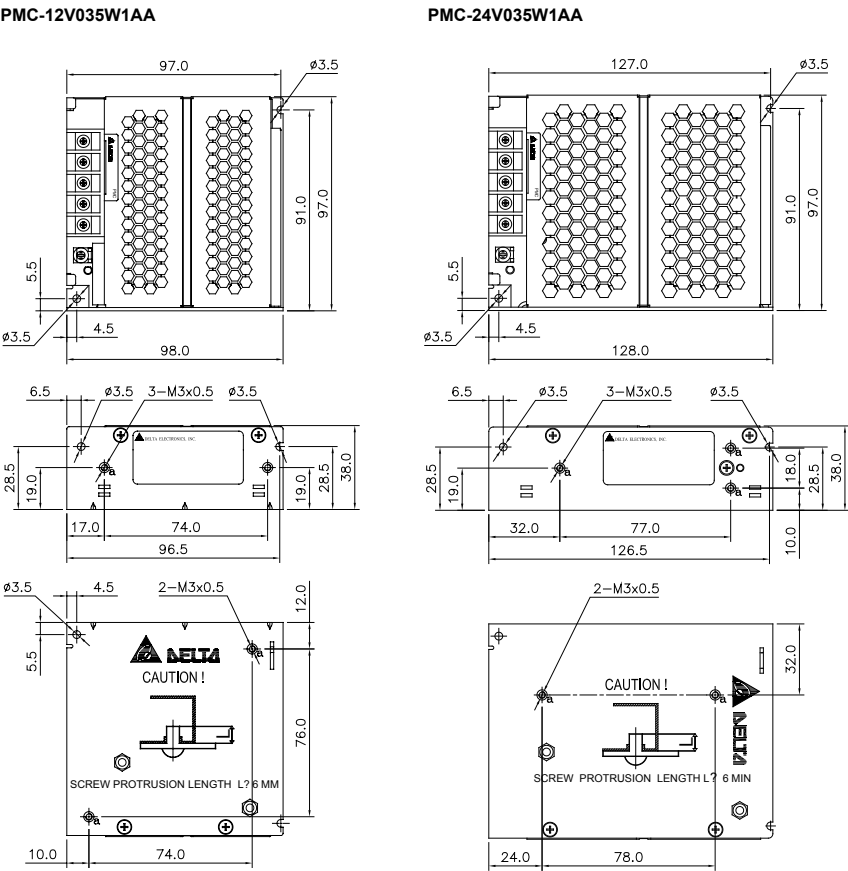


Features

- Full aluminium casing for lightweight and corrosion resistant handling
- Universal AC input
- Overload protection
- Over voltage protection
- Thermal protection
- MTBF: > 700,000 hrs.
- Efficiency: > 85% typ.
- Expected lifetime: 10 years
- 2 years warranty
- RoHS compliant



Mechanical drawings



Technical data

OUTPUT SPECIFICATIONS	PMC-12V035W1AA	PMC-24V035W1AA
Output voltage	12V	24V
Output voltage range	11 - 14V	22 - 28V
Output current	3.0A	1.46A
Output power	35W	
Residual ripple / peak switching (20MHz)	< 100mVpp @ 25°C; < 150mVpp @ -10°C	
Mains buffering @ nominal load (typ.)	> 15ms @ 115Vac, > 80ms @ 230Vac	
Line regulation	< 0.5% typ. (@ 85-264Vac input, 100% load)	
Load regulation	< 1% typ. (@ 85-264Vac input, 0 to 100 % load)	

INPUT SPECIFICATIONS	PMC-12V035W1AA	PMC-24V035W1AA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)	
Input frequency	47 - 63Hz	
Maximum input current	0.72A max. @ 115Vac, 0.45A max. @ 230Vac	0.72A max. @ 115Vac, 0.40A max. @ 230Vac
Inrush current limitation I _{pt} (+25°C)	< 30A @ 115Vac; 60A @ 230Vac	
Power factor	NA	
Efficiency	> 84% @ 115Vac & 230Vac	> 85% (typical)
Leakage current	< 1mA @ 240Vac	

MECHANICAL	PMC-12V035W1AA	PMC-24V035W1AA
Case cover	Aluminium (Al1100)	
Dimensions (L x W x H)	98mm x 97mm x 38mm	128mm x 97mm x 38mm
Unit weight / box	0.210kg	0.237kg
MTBF	> 700,000 hrs	
Noise	Sound pressure level (SPL) < 40dBA	
Cooling	Convection	
Input terminal	Terminal block 5 Pin rated 300V/20A	
Output terminal	Terminal block 5 Pin rated 300V/20A	
Input / output wire	AWG 22-14	
Shock proof	IEC600068-2-27	
Vibration	IEC600068-2-6	
Protection structure	IPX0	

SAFETY	PMC-12V035W1AA	PMC-24V035W1AA
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B	
Immunity	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8, 1995	
Safety standard	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, TUV, CCC, CE (EMC and Low Voltage directive)	
Voltage dips	Conform to EN61000-4-11	
Galvanic isolation	Input to output: 3KVac Input to ground: 1.5KVac Output to ground: 0.5KVac	
Operating ambient temperature	-10°C ~ +70°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95% RH	
Note (*)	Operating to 70°C possible with a linear derating to half power from 50°C to 70°C	

Panel Mount 50W 12V & 24V 1 Phase



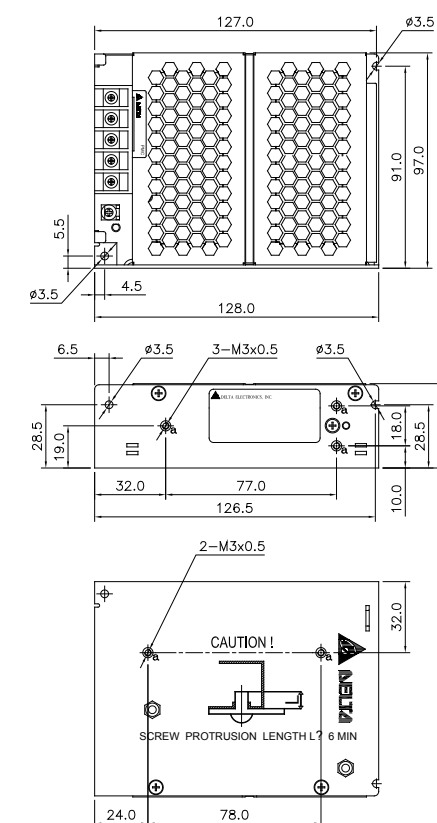
Features

- Full aluminium casing for lightweight and corrosion resistant handling
- Universal AC input
- Overload protection
- Over voltage protection
- Thermal protection
- MTBF: > 700,000 hrs.
- Efficiency: > 85% typ.
- Expected lifetime: 10 years
- 2 years warranty
- RoHS compliant



Mechanical drawings

PMC-12V050W1AA & PMC-24V050W1AA



Technical data

OUTPUT SPECIFICATIONS	PMC-12V050W1AA	PMC-24V050W1AA
Output voltage	12V	24V
Output voltage range	11 - 14V	22 - 28V
Output current	4.17A	2.10A
Output power	50W	
Residual ripple / peak switching (20MHz)	< 100mVpp @ 25°C; < 150mVpp @ -10°C	
Mains buffering @ nominal load (typ.)	> 15ms @ 115Vac, > 80ms @ 230Vac	> 15ms @ 115Vac, > 90ms @ 230Vac
Line regulation	< 0.5% typ. (@ 85-264Vac input, 100% load)	
Load regulation	< 1% typ. (@ 85-264Vac input, 0 to 100 % load)	

INPUT SPECIFICATIONS	PMC-12V050W1AA	PMC-24V050W1AA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)	
Input frequency	47 - 63Hz	
Maximum input current	1.1A max. @ 115Vac, 0.7A max. @ 230Vac	
Inrush current limitation I _{pt} (+25°C)	< 30A @ 115Vac; < 65A @ 230Vac	< 30A @ 115Vac; < 60A @ 230Vac
Power factor	NA	
Efficiency	> 83% @ 115Vac; > 84% @ 230Vac	> 86% (typical)
Leakage current	< 1mA @ 240Vac	

MECHANICAL	PMC-12V050W1AA	PMC-24V050W1AA
Case cover	Aluminium (Al1100)	
Dimensions (L x W x H)	128mm x 97mm x 38mm	
Unit weight / box	0.255kg	
MTBF	> 700,000 hrs	
Noise	Sound pressure level (SPL) < 40dBA	
Cooling	Convection	
Input terminal	Terminal block 5 Pin rated 300V/20A	
Output terminal	Terminal block 5 Pin rated 300V/20A	
Input / output wire	AWG 22-14	
Shock proof	IEC600068-2-27	
Vibration	IEC600068-2-6	
Protection structure	IPX0	

SAFETY	PMC-12V050W1AA	PMC-24V050W1AA
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B	
Immunity	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8, EN61000-3-2, 1994	
Safety standard	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, TUV, CCC, CE (EMC and Low Voltage directive) UR/cUR recognized to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1; CCC, CE (EMC and low voltage directive), NEMKO	
	       	
Voltage dips	Conform to EN61000-4-11	
Galvanic isolation	Input to output: 3KVac Input to ground: 1.5KVac Output to ground: 0.5KVac	
Operating ambient temperature	-10°C ~ +70°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95% RH	
Note (*)	Operating to 70°C possible with a linear derating to half power from 50°C to 70°C	

Panel Mount

75W 24V 1 Phase



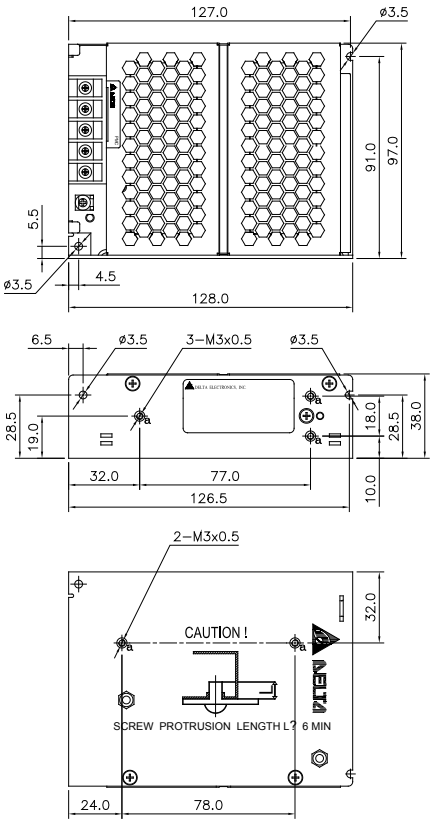
Features

- Full aluminium casing for lightweight and corrosion resistant handling
- Universal AC input
- Overload protection
- Over voltage protection
- Thermal protection
- MTBF: > 700,000 hrs.
- Efficiency: > 85% typ.
- Expected lifetime: 10 years
- 2 years warranty
- RoHS compliant



Mechanical drawings

PMC-24V075W1AA



Technical data

OUTPUT SPECIFICATIONS	PMC-24V075W1AA
Output voltage	24V
Output voltage range	22 - 28V
Output current	3.13A
Output power	75W
Residual ripple / peak switching (20MHz)	< 100mVpp @ 25°C; < 150mVpp @ -10°C
Mains buffering @ nominal load (typ.)	> 15ms @ 115Vac, > 90ms @ 230Vac
Line regulation	< 0.5% typical (@ 85-264Vac input, 100% load)
Load regulation	< 1% typical (@ 85-264Vac input, 0 to 100 % load)

INPUT SPECIFICATIONS	PMC-24V075W1AA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)
Input frequency	47 - 63Hz
Maximum input current	1.8A max. (1.5A max. @ 115Vac, 1.0A max. @ 230Vac)
Inrush current limitation I _{pt} (+25°C)	< 40A @ 115Vac; < 80A @ 230Vac
Power factor	Conform to EN61000-3-2 STD. CLASS A LIMITS.
Efficiency	> 86% (typ.)
Leakage current	< 1mA @ 240Vac

MECHANICAL	PMC-24V075W1AA
Case cover	Aluminium (Al1100)
Dimensions (L x W x H)	128mm x 97mm x 38mm
Unit weight / box	0.300kg
MTBF	> 700,000 hrs
Noise	Sound pressure level (SPL) < 40dBA
Cooling	Convection
Input terminal	Terminal block 5 Pin rated 300V/20A
Output terminal	Terminal block 5 Pin rated 300V/20A
Input / output wire	AWG 22-14
Shock proof	IEC600068-2-27
Vibration	IEC600068-2-6
Protection structure	IPX0

SAFETY	PMC-24V075W1AA
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B
Immunity	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8, EN61000-3-2, 1994
Safety standard	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, TUV, CCC, CE (EMC and Low Voltage directive) 
Voltage dips	Conform to EN61000-4-11
Galvanic isolation	Input to output: 3KVac Input to ground: 1.5KVac Output to ground: 0.5KVac
Operating ambient temperature	-10°C ~ +70°C *
Storage temperature	-25°C ~ +85°C
Operating humidity	< 95% RH
Note (*)	Operating to 70°C possible with a linear derating to half power from 50°C to 70°C

Panel Mount

100W 12V & 24V 1 Phase



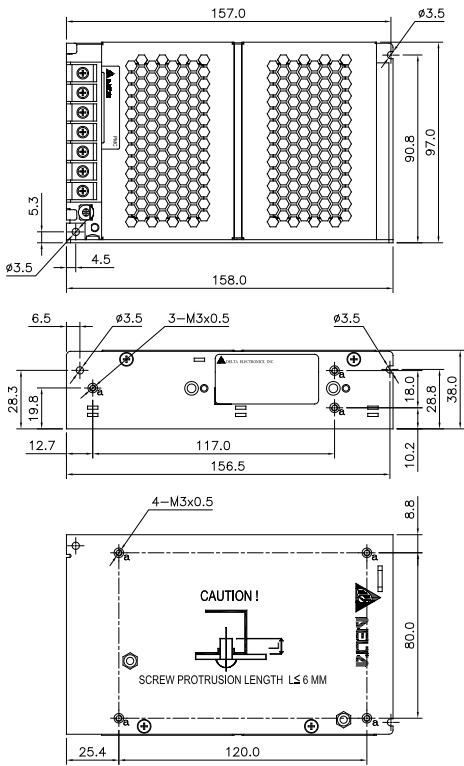
Features

- Full aluminium casing for lightweight and corrosion resistant handling
- Universal AC input
- Overload protection
- Over voltage protection
- Thermal protection
- MTBF: > 700,000 hrs.
- Efficiency: > 85% typ.
- Expected lifetime: 10 years
- 2 years warranty
- RoHS compliant



Mechanical drawings

PMC-12V100W1AA & PMC-24V100W1AA



Technical data

OUTPUT SPECIFICATIONS	PMC-12V100W1AA	PMC-24V100W1AA
Output voltage	12V	24V
Output voltage range	11 - 14V	22 - 28V
Output current	8.33A	4.17A
Output power	100W	
Residual ripple / peak switching (20MHz)	< 100mVpp @ 25°C; < 150mVpp @ -10°C	
Mains buffering @ nominal load (typ.)	> 15ms @ 115Vac, > 80ms @ 230Vac	> 15ms @ 115Vac, > 90ms @ 230Vac
Line regulation	< 0.5% typ. (@ 85-264Vac input, 100% load)	
Load regulation	< 1% typ. (@ 85-264Vac input, 0 to 100 % load)	

INPUT SPECIFICATIONS	PMC-12V100W1AA	PMC-24V100W1AA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)	
Input frequency	47 - 63Hz	
Maximum input current	2.0A max. @ 115Vac, 1.1A max. @ 230Vac	
Inrush current limitation I _{pt} (+25°C)	< 60A @ 115Vac; < 130A @ 230Vac	< 50A @ 115Vac; < 100A @ 230Vac
Power factor	Conform to EN61000-3-2 STD. CLASS A LIMITS.	
Efficiency	> 84% @ 115Vac; > 86% @ 230Vac	> 86% (typical)
Leakage current	< 1mA @ 240Vac	

MECHANICAL	PMC-12V100W1AA	PMC-24V100W1AA
Case cover	Aluminium (Al1100)	
Dimensions (L x W x H)	158mm x 97mm x 38mm	
Unit weight / box	0.45kg	0.41kg
MTBF	> 700,000 hrs	
Noise	Sound pressure level (SPL) < 40dBA	
Cooling	Convection	
Input terminal	Terminal block 7 Pin rated 300V/20A	
Output terminal	Terminal block 7 Pin rated 300V/20A	
Input / output wire	AWG 22-14	
Shock proof	IEC600068-2-27	
Vibration	IEC600068-2-6	
Protection structure	IPX0	

SAFETY	PMC-12V100W1AA	PMC-24V100W1AA
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B	
Immunity	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8, EN61000-3-2, 1994	
Safety standard	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, TUV, CCC, CE (EMC and Low Voltage directive), NEMKO	
Voltage dips	Conform to EN61000-4-11	
Galvanic isolation	Input to output: 3KVac Input to ground: 1.5KVac Output to ground: 0.5KVac	
Operating ambient temperature	-10°C ~ +70°C *	
Storage temperature	-25°C ~ +85°C	
Operating humidity	< 95% RH	
Note (*)	Operating to 70°C possible with a linear derating to half power from 50°C to 70°C	

Panel Mount

100W 24V Dual Output



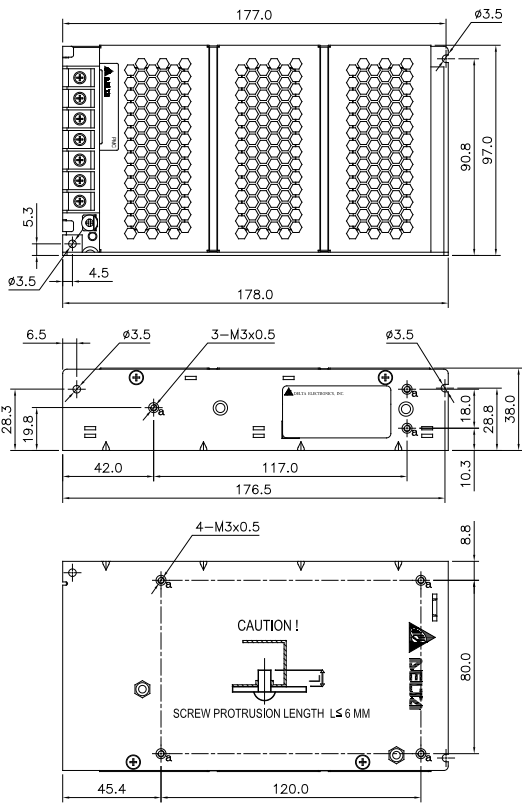
Features

- Full aluminium casing for lightweight and corrosion resistant handling
- Universal AC input
- Ease of wire connection to terminals
- Overload & over voltage protection
- MTBF: > 700,000 hrs.
- Efficiency: > 84% typ.
- Expected lifetime: 10 years
- 2 years warranty
- RoHS compliant



Mechanical drawings

PMC-DSPV100W1A



Technical data

OUTPUT SPECIFICATIONS	PMC-DSPV100W1A
Output voltage	24V / 5V
Output voltage range	V1: 24Vdc +/-2% / V2: 5Vdc +/-2%
Output current	V1: 24Vdc / 0.3 - 4.0A (2.7A rated) / V2: 5Vdc / 0.8 - 7.0A (7A rated)
Output power	100W
Residual ripple / peak switching (20MHz)	< 200mVp-p (24V) & < 80mVp-p (5V)
Start-up time	< 1000ms @ 100% load (25°C)
Mains buffering @ nominal load (typ.)	> 15ms @ 115Vac & > 80ms @ 230Vac
Rise time	< 30ms (24V) & < 20ms (5V)
Line regulation	+/- 0.5% typ. (@ 85-264Vac input, rated load)
Load regulation	+/- 1% typ. (@ 85-264Vac input) *
Note	All parameter not specially mentioned are measured @ 230Vac input, rated load and 25°C of ambient temp.
Note (*)	Measured from 20% to 100% rated load, @ another output set at 60% rated load

INPUT SPECIFICATIONS	PMC-DSPV100W1A
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)
Input frequency	47 - 63Hz
Maximum input current	3.2A max. (2A max. @ 115Vac, 1.1A max. @ 230Vac)
Inrush current limitation I _{pt} (+25°C)	< 50A @ 115Vac, < 100A @ 230Vac @ 25°C
Power factor	IEC-61000-3-2 Class A
Efficiency	> 84% @ 115Vac & > 86% @ 230Vac (rated load)
Leakage current	< 1mA @ 240Vac

MECHANICAL	PMC-DSPV100W1A
Case cover	Aluminium (Al1100)
Dimensions (L x W x H)	178mm x 97mm x 38mm
Unit weight / box	0.52kg
MTBF	> 700,000 hrs
Noise	Sound pressure level (SPL) < 40dBA
Cooling	Convection
Input terminal	Terminal block 7 Pin rated 300V/20A
Output terminal	Terminal block 7 Pin rated 300V/20A
Input / output wire	AWG 22-14
Shock proof	IEC600068-2-27
Vibration	IEC600068-2-6
Protection structure	IPX0

SAFETY	PMC-DSPV100W1A
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B
Immunity	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8, EN61000-3-2, 1994
Safety standard	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1CB test certificate and report to IEC60950-1, TUV, CCC, CE (EMC and Low Voltage directive)    
Voltage dips	Conform to EN61000-4-11
Galvanic isolation	Input to output: 3KVac Input to ground: 1.5KVac Output to ground: 0.5KVac
Operating ambient temperature	-10°C ~ +70°C *
Storage temperature	-25°C ~ +85°C
Operating humidity	< 95% RH non-condensing
Note (*)	Operating to 70°C possible with a linear derating to half power from 50°C to 70°C

Panel Mount

150W 24V 1 Phase



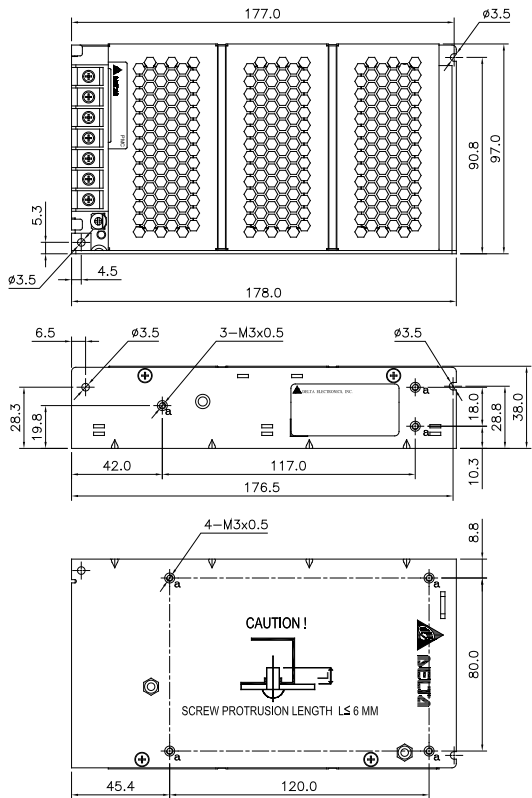
Features

- Full aluminium casing for lightweight and corrosion resistant handling
- Universal AC input
- Overload protection
- Over voltage protection
- Thermal protection
- MTBF: > 700,000 hrs.
- Efficiency: > 85% typ.
- Expected lifetime: 10 years
- 2 years warranty
- RoHS compliant



Mechanical drawings

PMC-24V150W1AA



Technical data

OUTPUT SPECIFICATIONS	PMC-24V150W1AA
Output voltage	24V
Output voltage range	22 - 28V
Output current	6.25A
Output power	150W
Residual ripple / peak switching (20MHz)	< 100mVpp @ 25°C; < 150mVpp @ -10°C
Mains buffering @ nominal load (typ.)	> 15ms @ 115Vac, > 80ms @ 230Vac
Line regulation	< 0.5% typical (@ 85-264Vac input, 100% load)
Load regulation	< 1% typical (@ 85-264Vac input, 0 to 100 % load)

INPUT SPECIFICATIONS	PMC-24V150W1AA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)
Input frequency	47 - 63Hz
Maximum input current	3.8A max. (3.1A max. @ 115Vac, 2.0A max. @ 230Vac)
Inrush current limitation I _{pt} (+25°C)	< 60A @ 115Vac; 120A @ 230Vac
Power factor	NA
Efficiency	> 86% (typ.)
Leakage current	< 1mA @ 240Vac

MECHANICAL	PMC-24V150W1AA
Case cover	Aluminium (Al1100)
Dimensions (L x W x H)	178mm x 97mm x 38mm
Unit weight / box	0.480kg
MTBF	> 700,000 hrs
Noise	Sound pressure level (SPL) < 40dBA
Cooling	Convection
Input terminal	Terminal block 7 Pin rated 300V/20A
Output terminal	Terminal block 7 Pin rated 300V/20A
Input / output wire	AWG 22-14
Shock proof	IEC600068-2-27
Vibration	IEC600068-2-6
Protection structure	IPX0

SAFETY	PMC-24V150W1AA
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B
Immunity	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8 or IEEE C62.41
Safety standard	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, TUV, CCC (prepared), CE (EMC and Low Voltage directive), not fulfilled EN61000-3-2 
Voltage dips	Conform to EN61000-4-11
Galvanic isolation	Input to output: 3KVac Input to ground: 1.5KVac Output to ground: 0.5KVac
Operating ambient temperature	-10°C ~ +70°C *
Storage temperature	-25°C ~ +85°C
Operating humidity	< 95% RH
Note (*)	Operating to 70°C possible with a linear derating to half power from 50°C to 70°C

Panel Mount

300W 24V 1 Phase



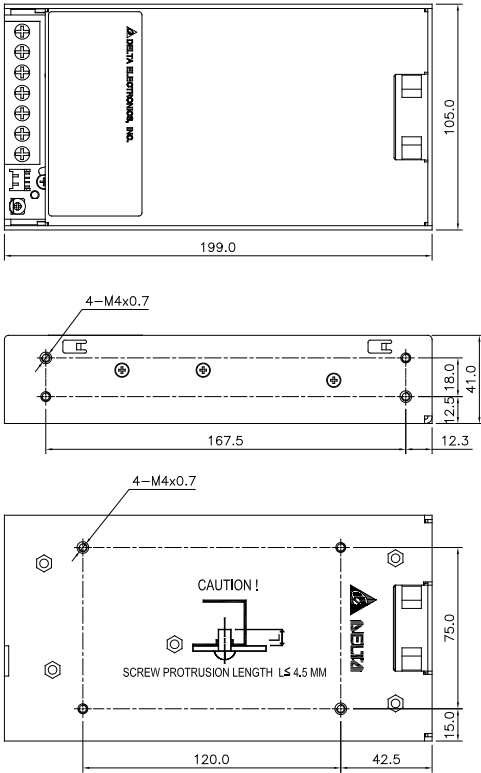
Features

- Ease of wire connection to terminals
- Full aluminium casing for lightweight and corrosion resistant handling
- Universal AC input
- Built-in active PFC function, PF > 0.96
- Built-in remote sense function
- Stand-by voltage 12V / 5A
- Overvoltage & overload protection
- 3 years warranty
- RoHS compliant



Mechanical drawings

PMC-24V300W1BA



Technical data

OUTPUT SPECIFICATIONS	PMC-24V300W1BA
Output voltage	24V
Output voltage range	22 - 28V
Stand-by voltage	12V / 5A
Output current	12.5A
Output power	300W
Residual ripple / peak switching (20MHz)	< 100mVpp @ 25°C & 50°C
Start-up time	< 1000ms @ 100% load
Mains buffering @ nominal load (typ.)	> 15ms @ typical range with 300W load
Rise time	< 30ms @ 100% load
Line regulation	< 0.5% typical (@ 85-264Vac input, 100% load)
Load regulation	< 0.5% typical (with rated input, 0 to 100 % load)

INPUT SPECIFICATIONS	PMC-24V300W1BA
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)
Input frequency	47 - 63Hz
Maximum input current	5A max. (4A max. @ 115Vac, 2A max. @ 230Vac)
Inrush current limitation I _{pt} (+25°C)	< 35A @ 115Vac, 70A @ 230Vac
Power factor	IEC-61000-3-2
Efficiency	> 86% @ 115Vac & > 87% @ 230Vac
Leakage current	< 1 mA @ 240 Vac

MECHANICAL	PMC-24V300W1BA
Case cover	Aluminium (Al1100)
Dimensions (L x W x H)	199mm x 105mm x 41mm
Unit weight / box	0.820kg
MTBF	> 700,000 hrs
Noise	Sound pressure level (SPL) < 40dBA
Cooling	Fan
Input terminal	Terminal block 7 Pin (C44M-BS1107)
Output terminal	Terminal block 7 Pin (C44M-BS1107)
Input / output wire	AWG 20-16
Shock proof	IEC600068-2-27
Vibration	IEC600068-2-6
Protection structure	IP20

SAFETY	PMC-24V300W1BA
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, Class B
Immunity	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8 or IEC61000-4-12 or IEEE C62.41
Safety standard	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1 CB test certificate and report to IEC60950-1, SIQ, CCC, CE (EMC and Low Voltage directive)    
Voltage dips	Conform to EN61000-4-11
Galvanic isolation	Input to output: 3KVac Input to ground: 1.5KVac Output to ground: 0.5KVac
Operating ambient temperature	-10°C ~ +70°C *
Storage temperature	-25°C ~ +85°C
Operating humidity	< 95% RH non-condensing
Note (*)	Operating to 70°C possible with a linear derating to half power from 50°C to 70°C

Panel Mount
Product specification

05V Panel Mount Power Supply		12V Panel Mount Power Supply		24V Panel Mount Power Supply				
OUTPUT (DC)	PMC- 05V035W1AA	PMC-12V035W1AA	PMC-12V050W1AA	PMC-12V100W1AA	PMC-24V035W1AA	PMC-24V050W1AA	PMC-24V075W1AA	PMC-24V100W1AA
Output voltage	5V		12V		24V			
Output voltage range	4.75 - 5.5V		11 - 14V		22 - 28V			
Output current	7.0A	3.0A	4.17A	8.33A	1.46A	2.10A	3.13A	4.17A
Output power	35W	35W	50W	100W	35W	50W	75W	100W
Residual ripple / peak switching (20MHz)	< 70mVpp @ 25°C, < 150mVpp @ nominal values				< 100mVpp @ +25°C , < 150mVpp @ -10°C			
Mains buffering @ nominal load (typ.)	> 80ns @ 230Vac, >15ms @ 115Vac, 25°C	> 15ms @ 115Vac, > 80ms @ 230Vac				> 15ms @ 115Vac, > 90ms @ 230Vac		
Line regulation	< 0.5% typ. (@ 85-264Vac input, 100% load)							
Load regulation	< 1% typ. (@ 85-264Vac input, 0 to 100 % load)							
INPUT (AC)								
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)							
Input frequency	47 - 63Hz							
Maximum input current	1.0A Max.(0.9A @ 115Vac, 0.5A @ 230Vac)	0.72A max. @ 115Vac, 0.45A max. @ 230Vac	1.1A max. @ 115Vac, 0.7A max. @ 230Vac	2.0A max. @ 115Vac, 1.1A max. @ 230Vac	0.72A max. @ 115Vac, 0.40A max. @ 230Vac	1.1A max. @ 115Vac, 0.7A max. @ 230Vac	1.8A max. (1.5A max. @ 115Vac, 1.0A max. @ 230Vac)	2.0A max. @ 115Vac, 1.1A max. @ 230Vac
Inrush current limitation I²t (+25°C) typ.	< 30A @ 115Vac, < 60A @ 230Vac	< 30A @ 115Vac; 60A @ 230Vac	< 30A @ 115Vac; 65A @ 230Vac	< 60A @ 115Vac; < 130A @ 230Vac	< 30A @ 115Vac; 60A @ 230Vac	< 30A @ 115Vac; 60A @ 230Vac	< 40A @ 115Vac; 80A @ 230Vac	< 50A @ 115Vac; 100A @ 230Vac
Power factor	NA			Conform to EN61000-3-2 STD. CLASS A LIMITS.	NA			Conform to EN61000-3-2 STD. CLASS A LIMITS.
Efficiency	78% @ 115 Vac, 79% @ 230Vac	> 84% @ 115Vac & 230Vac	> 83% @ 115Vac; > 84% @ 230Vac	> 84% @ 115Vac; > 86% @ 230Vac	> 85% (typical)	> 86% (typical)		
Leakage current	< 1mA @ 240Vac							
MECHANICAL								
Case cover	Aluminium (Al1100)							
Dimensions (L x W x H)	98mm x 97mm x 38mm	98mm x 97mm x 38mm	128mm x 97mm x 38mm	158mm x 97mm x 38mm	128mm x 97mm x 38mm			158mm x 97mm x 38mm
Unit weight / box	0.175kg	0.210kg	0.255kg	0.45kg	0.237kg	0.255kg	0.300kg	0.41kg
MTBF	> 700,000 hrs							
Noise	Sound pressure level (SPL) < 40dBA							
Cooling	Convection							
Input terminal	Terminal block 5 Pin rated 300V/20A			Terminal block 7 Pin rated 300V/20A		Terminal block 5 Pin rated 300V/20A		Terminal block 7 Pin rated 300V/20A
Output terminal	Terminal block 5 Pin rated 300V/20A			Terminal block 7 Pin rated 300V/20A		Terminal block 5 Pin rated 300V/20A		Terminal block 7 Pin rated 300V/20A
Input / output wire	AWG 18-14				AWG 22-14			
Shock proof	IEC600068-2-27							
Vibration	IEC600068-2-6							
Protection structure	IPX0							
SAFETY								
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B							
Immunity	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8, EN61000-3-2, 1994 (Except for PMC-24V150W1AA)							
Safety standard	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, EN60950-1, CE SIQ, CCC prepared (EMC and low voltage directive)							
	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, TUV, CCC, CE (EMC and Low Voltage directive)		UR/cUR recognized to UL60950-1 and CSA C22.2 No.60950-1; CB test certificate and report to IEC60950-1; CCC, CE (EMC and low voltage directive), NEMKO		UR/cUR recognize to UL60950-1 and CSA C22.2 No.60950-1; CB test certificate and report to IEC60950-1, TUV, CCC, CE (EMC and Low Voltage directive)		UR/cUR recognized to UL60950-1 and CSA C22.2 No.60950-1; CB test certificate and report to IEC60950-1; CCC, CE (EMC and low voltage directive), NEMKO	
Voltage dips	Conform to EN61000-4-11							
Galvanic isolation	Input to output: 3KVac Input to ground: 1.5KVac Output to ground: 0.5KVac							
Operating ambient temperature	-10°C ~ +70°C *							
Storage temperature	-25°C ~ +85°C							
Operating humidity	< 95% RH							
Note (*)	Operating to 70°C possible with a linear derating to half power from 50°C to 70°C							
Reference no.	EOE11010299	EOE11010185	EOE11010186	EOE11010187	EOE11010118	EOE11010119	EOE11010208	EOE11010120

Panel Mount
Product specification

24V Panel Mount Power Supply		Dual Panel Mount Power Supply	
OUTPUT (DC)	PMC-24V150W1AA	PMC-24V300W1BA	PMC-DSPV100W1A
Output voltage	24V		24V / 5V
Output voltage range	24 - 28V	22 - 28V	V1: 24Vdc +/-2% / V2: 5Vdc +/-2%
Output current	6.25A	12.5A	V1: 24Vdc / 0.3 - 4.0A (2.7A rated) / V2: 5Vdc / 0.8 - 7.0A (7A rated)
Output power	150W	300W	100W
Residual ripple / peak switching (20MHz)	< 100mVpp @ 25°C , < 150mVpp @ -10°C	< 100mVpp @ 25°C & 50°C	< 200mVp-p (24V), < 80mVp-p (5V)
Mains buffering @ nominal load (typ.)	> 15ms @ 115Vac, > 80ms @ 230Vac	> 15ms @ typical range with 300W load	> 15ms @ 115Vac, > 80ms @ 230Vac
Line regulation	< 0.5% typ. (@ 85-264Vac input, 100% load)		+/- 0.5% typ. (@ 85-264Vac input, rated load)
Load regulation	< 1% typ. (@ 85-264Vac input, 0 to 100 % load)	< 0.5% typ. (with rated input, 0 to 100 % load)	+/- 1% typ. (@ 85-264Vac input)
INPUT (AC)			
Input voltage range	85 - 264Vac (DC input range 120 - 375Vdc)		
Input frequency	47 - 63Hz		
Maximum input current	3.8A max. (3.1A max. @ 115Vac, 2.0A max. @ 230Vac)	5A max. (4A max. @ 115Vac, 2A max. @ 230Vac)	3.2A max. (2A max. @ 115Vac, 1.1A max. @ 230Vac)
Inrush current limitation I ² t (+25°C) typ.	< 60A @ 115Vac; 120A @ 230Vac	< 35A @ 115Vac, 70A @ 230Vac	< 50A @ 115Vac, < 100A @ 230Vac @ 25°C
Power factor	NA	IEC-61000-3-2	IEC-61000-3-2 Class A
Efficiency	> 86% (typical)	> 86% @ 115Vac, > 87% @ 230Vac	> 84% @ 115Vac, > 86% @ 230Vac (rated load)
Leakage current	< 1mA @ 240Vac		
MECHANICAL			
Case cover	Aluminium (Al1100)		
Dimensions (L x W x H)	178mm x 97mm x 38mm	199mm x 105mm x 41mm	178mm x 97mm x 38mm
Unit weight / box	0.480kg	0.820kg	0.52kg
MTBF	> 700,000 hrs		
Noise	Sound pressure level (SPL) < 40dBA		
Cooling	Convection	Fan	Convection
Input terminal	Terminal block 7 Pin rated 300V/20A	Terminal block 7 Pin (C44M-BS1107)	Terminal block 7 Pin rated 300V/20A
Output terminal	Terminal block 7 Pin rated 300V/20A	Terminal block 7 Pin (C44M-BS1107)	Terminal block 7 Pin rated 300V/20A
Input / output wire	AWG 22-14	AWG 20-16	AWG 22-14
Shock proof	IEC600068-2-27		
Vibration	IEC600068-2-6		
Protection structure	IPX0	IP20	IPX0
SAFETY			
EMC / Emissions	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B	FCC Title 47, Class B/EN55022, CISPR22, Class B	FCC Title 47, Class B/EN55022, CISPR22, CISPR11, Class B
Immunity	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8 or IEC61000-4-12 or IEEE C62.41	EN61000-4-2, 1995; EN61000-4-3, 1998; EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 1996; EN61000-4-8, EN61000-3-2, 1994 (Except for PMC-24V150W1AA)
Safety standard	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, TUV, CCC (prepared), CE (EMC and Low Voltage directive) not fulfilled EN61000-3-2 	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1 CB test certificate and report to IEC60950-1, SIQ, CCC, CE (EMC and Low Voltage directive) 	UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, TUV, CCC, CE (EMC and Low Voltage directive) 
Voltage dips	Conform to EN61000-4-11		
Galvanic isolation	Input to output: 3KVac Input to ground: 1.5KVac Output to ground: 0.5KVac		
Operating ambient temperature	-10°C ~ +70°C *		
Storage temperature	-25°C ~ +85°C		
Operating humidity	< 95% RH non-condensing		< 95% RH
Note (*)	Operating to 70°C possible with a linear deratin to half power from 50°C to 70°C		
Reference no.	EOE12010188	EOE13010225	EOE11010192

Delta Medical Adapter Power Supply

The product range offers fixed output voltages of 12V for 30W and 24V for 60W and 80W output ratings. The state of the art design offers a wide operating temperature range of 0°C to 40°C and its rugged plastic body design can withstand severe safety & environmental requirements.

Delta's medical adapter offers various protection features such as over voltage, over current & over temperature protection. Operating at wide input range of 90 - 264Vac and offering 2 types of AC socket's C8 & C14 for EU & other countries makes it flexible to use under different operating conditions. Output connector with 1.5m long cable is Barrel type & available in 2 different sizes for internal pin dimensions of 2.5mm Ø & 2.1mm Ø for 30W and 60W and DIN-5 Pin type for 80W. This is to provide various options to cater for different user's needs.



Medical AC Adapter

30W 12V Power Supply



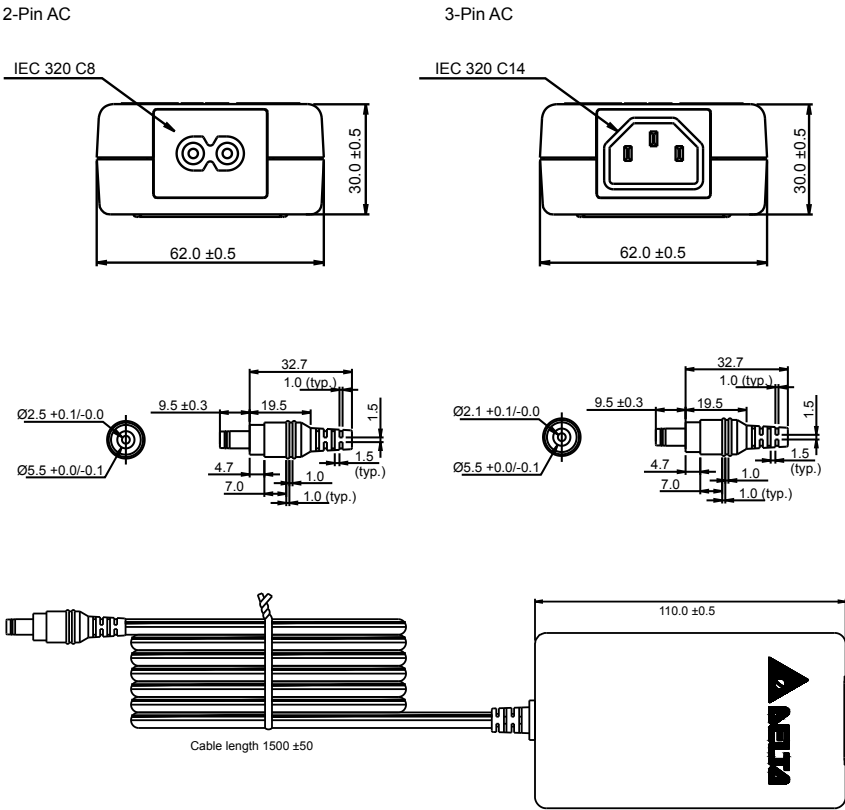
Features

- 30W average, with peak load 45W
- Universal input
- AC Receptacle with C8 & C14 option
- Efficiency > 83.5%
- No load power consumption < 0.3W
- Energy star compliant (Level V)
- Brownout & brownout recovery
- Low leakage current
- Complies to medical safety
- RoHS compliant



Mechanical drawings

AMD-12V030WxyA



Technical data

OUTPUT SPECIFICATIONS	AMD-12V030WxyA
Output voltage	12V
Output current range	2.5A
Output power	30W
Transient response	0.5ms. for 50% load change typical
Hold-up time	15ms min. @ 115Vac
Rise time	< 20ms
Start-up delay time	< 3sec.
Line regulation	± 0.5%
Load regulation	Excluding output cord ± 1%; Including output cord ± 5%
Output protection	Over current (auto recovery); Over voltage (latch); Over temperature (latch)

INPUT SPECIFICATIONS	AMD-12V030WxyA
Input voltage range	90 - 264Vac
Input frequency	47 - 63Hz
Maximum input current	0.65A max. @ 115Vac, 0.4A max. @ 230Vac
Inrush current	35A @ 115Vac, 70A @ 230Vac
Input protection	Internal fuse
Leakage current	< 0.25mA

MECHANICAL	AMD-12V030WxyA
Case cover	Plastic (PC)
Dimensions (L x W x H)	110mm x 62mm x 30mm
Unit weight / box	0.22kg
Output wire size	AWG18
Connector type	Barrel
Shock test	40G, 11ms, 3 shock in each direction
Vibration	5 - 500Hz @ 20m/s² (2G peak) for 20min/axis.

SAFETY	AMD-12V030WxyA
Emissions	CISPR EN55011 & FCC Title 47 Class B conducted & radiated
Immunity	EN61000-4-2 Level 3; EN61000-4-3 Level 3; EN61000-4-4 Level 3; EN61000-4-5 Level 3; EN61000-4-6 Level 3; EN61000-4-11
Safety standard	UR/cUR as per STD UL60601-1/CSA60601-1; Nemko EN60601-1; CE Mark LVD and EMC; CB as per IEC60601-1
Voltage flicker	EN61000-3-3
Operating ambient temperature	0°C ~ +40°C
Storage temperature	-30°C ~ +85°C
Operating humidity	5% to 95% non-condensing
Cooling	Convectional - non vented case

Medical AC Adapter

60W 24V Power Supply



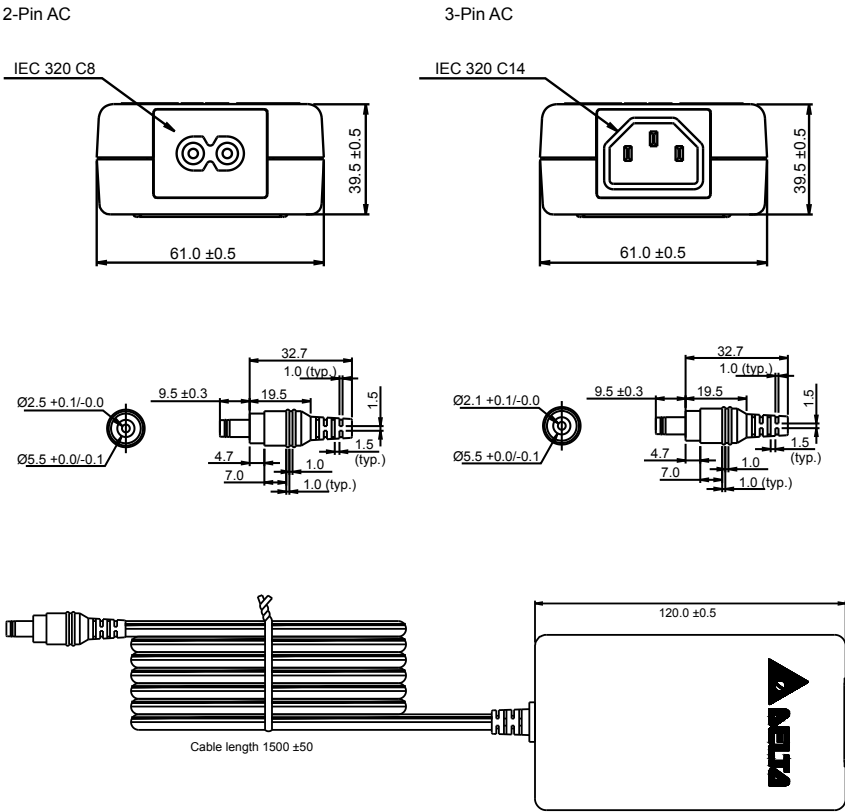
Features

- 60W average, with peak load 90W
- Universal input
- AC Receptacle with C8 & C14 option
- Efficiency > 87.0%
- No load power consumption < 0.5W
- Energy star compliant (Level V)
- Brownout & brownout recovery
- Low leakage current
- Complies to medical safety
- RoHS compliant



Mechanical drawings

AMD-24V060WxyA



Technical data

OUTPUT SPECIFICATIONS	AMD-24V060WxyA
Output voltage	24V
Output current range	2.5A
Output power	60W
Transient response	0.5ms. for 50% load change typical
Hold-up time	15ms min. @ 115Vac
Rise time	< 20ms
Start-up delay time	< 3sec.
Line regulation	± 0.5%
Load regulation	Excluding output cord ± 1%; Including output cord ± 5%
Output protection	Over current (auto recovery); Over voltage (latch); Over temperature (latch)

INPUT SPECIFICATIONS	AMD-24V060WxyA
Input voltage range	90 - 264Vac
Input frequency	47 - 63Hz
Maximum input current	1.20A max. @ 115Vac, 0.65A max. @ 230Vac
Inrush current	40A @ 115Vac, 90A @ 230Vac
Input protection	Internal fuse
Leakage current	< 0.25mA

MECHANICAL	AMD-24V060WxyA
Case cover	Plastic (PC)
Dimensions (L x W x H)	120mm x 61mm x 40mm
Unit weight / box	0.28kg
Output wire size	AWG18
Connector type	Barrel
Shock test	40G, 11ms, 3 shock in each direction
Vibration	5 - 500Hz @ 20m/s² (2G peak) for 20min/axis.

SAFETY	AMD-24V060WxyA
Emissions	CISPR EN55011 & FCC Title 47 Class B conducted & radiated
Immunity	EN61000-4-2 Level 3; EN61000-4-3 Level 3; EN61000-4-4 Level 3; EN61000-4-5 Level 3; EN61000-4-6 Level 3; EN61000-4-11
Safety standard	UR/cUR as per STD UL60601-1/CSA60601-1; Nemko EN60601-1; CE Mark LVD and EMC; CB as per IEC60601-1
Voltage flicker	EN61000-3-3
Operating ambient temperature	0°C ~ +40°C
Storage temperature	-30°C ~ +85°C
Operating humidity	5% to 95% non-condensing
Cooling	Convectional - non vented case

Medical AC Adapter

80W 24V Power Supply



Features

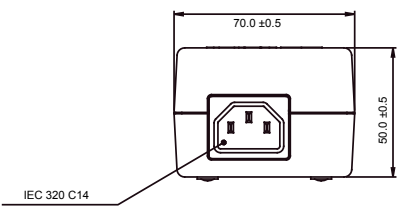
- 80W average, with peak load 95W
- Universal input
- AC Receptacle with C8 & C14 option
- Efficiency > 87.0%
- No load power consumption < 0.5W
- Energy star compliant (Level V)
- Brownout & brownout recovery
- Low leakage current
- Complies to medical safety
- RoHS compliant



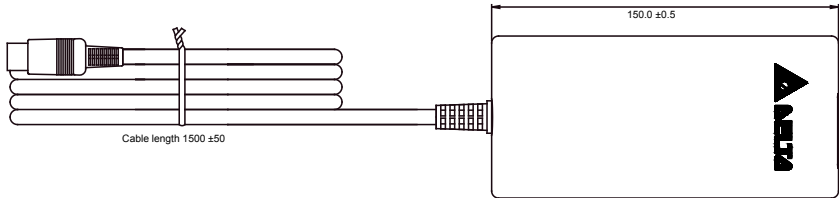
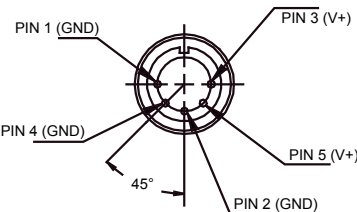
Mechanical drawings

AMD-24V080WxyA

3-Pin AC



5-Pin DIN



Technical data

OUTPUT SPECIFICATIONS	AMD-24V080WxyA
Output voltage	24V
Output current range	3.3A
Output power	80W
Transient response	0.5ms. for 50% load change typical
Hold-up time	15ms min. @ 115Vac
Rise time	< 20ms
Start-up delay time	< 3sec.
Line regulation	± 0.5%
Load regulation	Excluding output cord ± 1%; Including output cord ± 5%
Output protection	Over current (auto recovery); Over voltage (latch); Over temperature (latch)

INPUT SPECIFICATIONS	AMD-24V080WxyA
Input voltage range	90 - 264Vac
Input frequency	47 - 63Hz
Maximum input current	0.80A max. @ 115Vac, 0.45A max. @ 230Vac
Inrush current	40A @ 115Vac, 80A @ 230Vac
Input protection	Internal fuse
Leakage current	< 0.25mA

MECHANICAL	AMD-24V080WxyA
Case cover	Plastic (PC)
Dimensions (L x W x H)	150mm x 70mm x 50mm
Unit weight / box	0.55kg
Output wire size	AWG18
Connector type	Din-5 pin
Shock test	40G, 11ms, 3 shock in each direction
Vibration	5 - 500Hz @ 20m/s² (2G peak) for 20min/axis.

SAFETY	AMD-24V080WxyA
Emissions	CISPR EN55011 & FCC Title 47 Class B conducted & radiated
Immunity	EN61000-4-2 Level 3; EN61000-4-3 Level 3; EN61000-4-4 Level 3; EN61000-4-5 Level 3; EN61000-4-6 Level 3; EN61000-4-11
Safety standard	UR/cUR as per STD UL60601-1/CSA60601-1; Nemko EN60601-1; CE Mark LVD and EMC; CB as per IEC60601-1 
Voltage flicker	EN61000-3-3
Operating ambient temperature	0°C ~ +40°C
Storage temperature	-30°C ~ +85°C
Operating humidity	5% to 95% non-condensing
Cooling	Convectional - non vented case

Medical Adapter

Product specification

12V Medical Adapter Power Supply		24V Medical Adapter Power Supply	
OUTPUT (DC)	AMD-12V030WxyA	AMD-24V060WxyA	AMD-24V080WxyA
Output voltage	12V	24V	
Output current range	2.5A	2.5A	3.3A
Output power	30W	60W	80W
Transient response	0.5ms. for 50% load change typical		
Holdup time	15ms min. @ 115Vac		
Rise time	< 20ms		
Startup delay time	< 3sec.		
Line regulation	± 0.5%		
Load regulation	Excluding output cord ± 1%; Including output cord ± 5%		
Output protection	Over current (auto recovery); Over voltage (latch); Over temperature (latch)		
INPUT (AC)			
Input voltage range	90 - 264Vac		
Input frequency	47 - 63Hz		
Maximum input current	0.65A max. @ 115Vac, 0.4A max. @ 230Vac	1.20A max. @ 115Vac, 0.65A max. @ 230Vac	0.80A max. @ 115Vac, 0.45A max. @ 230Vac
Inrush current limitation	35A @ 115Vac, 70A @ 230Vac	40A @ 115Vac, 90A @ 230Vac	40A @ 115Vac, 80A @ 230Vac
Input protection	Internal fuse		
Leakage current	< 0.25mA		
MECHANICAL			
Case cover	Plastic (PC)		
Dimensions (L x W x H)	110mm × 62mm × 30mm	120mm × 61mm × 40mm	150mm × 70mm × 50mm
Unit weight / box	0.22kg	0.28kg	0.55kg
Output wire size	AWG18		AWG18
Connector type	Barrel		Din-5 pin
Shock test	40G, 11ms, 3 shock in each direction		
Vibration	5 - 500Hz @ 20m/s² (2G peak) for 20min/axis.		
SAFETY			
EMC / Emissions	CISPR EN55011 & FCC Title 47 Class B conducted & radiated		
Immunity	EN61000-4-2 Level 3; EN61000-4-3 Level 3; EN61000-4-4 Level 3; EN61000-4-5 Level 3; EN61000-4-6 Level 3; EN61000-4-11		
Safety standard	UR/cUR as per STD UL60601-1/CSA60601-1; Nemko EN60601-1; CE Mark LVD and EMC; CB as per IEC60601-1		
			
Voltage flicker	EN61000-3-3		
Operating ambient temperature	0°C ~ +40°C		
Storage temperature	-30°C ~ +85°C		
Operating humidity	5% to 95% non-condensing		
Cooling	Convectional - non vented case		

MODEL NUMBERING FOR AMD-12V030WxyA						
AM	D	12V	030W	x	y	A
Product type	Desktop	Output voltage	Output power	Input configuration # 2-2 PIN AC # 3-3 PIN AC	Connector type A - Ø inner 2.5mm B - Ø inner 2.1mm (Ø outer 5.5mm)	Delta standard product

MODEL NUMBERING FOR AMD-24V060WxyA						
AM	D	24V	060W	x	y	A
Product type	Desktop	Output voltage	Output power	Input configuration # 2-2 PIN AC # 3-3 PIN AC	Connector type A - Ø inner 2.5mm B - Ø inner 2.1mm (Ø outer 5.5mm)	Delta standard product

MODEL NUMBERING FOR AMD-24V080WxyA						
AM	D	24V	080W	x	y	A
Product type	Desktop	Output voltage	Output power	Input configuration # 2-2 PIN AC # 3-3 PIN AC	Output connector type C - 5 PIN	Delta standard product



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