

Features

- DC/DC Power Module
- 15W to 40W with 4:1 inputs, 60W with 2:1
- Screw Terminal Connections
- Class B EMC Filter built-in
- Input Fuse
- Reverse Polarity Protected
- Inrush Current Limiting (Soft Start)
- Output Trim Potentiometer
- Output LED Indicator
- DIN Rail Mounting or Panel Mount Options

Description

The Recom Power Module takes a standard 15W-60W converter and mounts it on a PCB with screw terminals, an EMC filter, input protection circuitry and a built-in heatsink to offer a complete power module that can be mounted on a bulkhead or on a standard DIN rail. The Power Module is primarily designed for transport applications such as a GPS vehicle tracking power supply or a radio communications power supply, but will also find many uses in industrial, communications or battery-powered applications.

How to use this datasheet:

1. Select the converter that suits your application from the converter series list below

2. Decide on DIN Mount (RPMD) or bulkhead (RPM) version

Ordering example: 40W, 18-75 VDC in, single 12V out, DIN Mount = RPMD40-4812SGW

Selection Guide Single and Dual Outputs - Panel Mount Version

Power Module Part Number (Bulkhead Version)	Input Range VDC	Output Power Watts	Internal Fuse (Replaceable)	Converter Series
RPM15-24xxS_DFW**	9.5-36	15	F4A	RP15-24xxS_DFW
RPM15-48xxS_DFW**	18-75	15	F4A	RP15-48xxS_DFW
RPM20-24xxS_DFW**	9.5-36	20	F4A	RP20-24xxS_DFW
RPM20-48xxS_DFW**	18-75	20	F4A	RP20-48xxS_DFW
RPM30-24xxS_DEW**	10-40	30	F6A	RP30-24xxS_DEW
RPM30-48xxS_DEW**	18-75	30	F4A	RP30-48xxS_DGW
RPM40-48xxS_DGW**	18-75	40	F4A	RP40-48xxS_DGW
RPM60-24xxSG**	18-36	60	F8A	RP60-24xxSG
RPM60-48xxSG**	36-75	60	F4A	RP60-48xxSG

** add /P or /N for Positive or Negative CTRL logic

Selection Guide Single and Dual Outputs - DIN Rail Version

Power Module Part Number (DIN rail Version)	Input Range VDC	Output Power Watts	Internal Fuse (Replaceable)	Converter Series
RPMD15-24xxS_DFW**	9.5-36	15	F4A	RP15-24xxS_DFW
RPMD15-48xxS_DFW**	18-75	15	F4A	RP15-48xxS_DFW
RPMD20-24xxS_DFW**	9.5-36	20	F4A	RP20-24xxS_DFW
RPMD20-48xxS_DFW**	18-75	20	F4A	RP20-48xxS_DFW
RPMD30-24xxS_DEW**	10-40	30	F6A	RP30-24xxS_DEW
RPMD30-48xxS_DEW**	18-75	30	F4A	RP30-48xxS_DEW
RPMD40-24xxS_DGW**	9.5-36	40	F4A	RP40-24xxS_DGW
RPMD40-48xxS_DGW**	18-75	40	F4A	RP40-48xxS_DGW
RPMD60-24xxSG**	18-36	60	F8A	RP60-24xxSG
RPMD60-48xxSG**	36-75	60	F4A	RP60-48xxSG

** add /P or /N for Positive or Negative CTRL logic

Specifications (typical at nominal input and 25°C unless otherwise noted)

Specifications are as in individual converter datasheets with the following exceptions:
(move to top of next page)

POWERLINE

DC/DC-Converter
Power Module

with 3 year Warranty

RECOM

15-60 Watt

Single

& Dual

Outputs



EN-60950-1 Certified
CE Marked

Power Modules

xx = Output Voltage Options

Single Outputs:

3.3S = 3.3V

05S = 5V

12S = 12V

15S = 15V

Dual Outputs:

12D = ±12V

15D = ±15V

Refer to converter series datasheets for detailed information.

Please Read Application Notes

Bulkhead Version

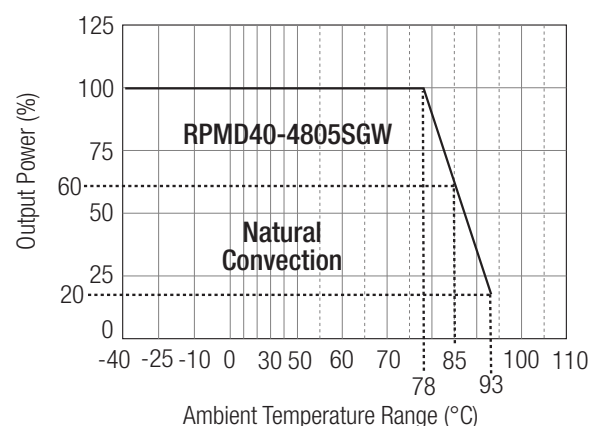
Input Voltage Range	see selection guide	
Inrush current	Nominal Vin and Full Load	soft start
Startup time	Power up: Nominal Vin and Full Load CTRL pin: Nominal Vin and Full Load	100ms typ. 20ms typ.
Thermal impedance	8.5°C/W	
Conducted Emissions	EN55022	Class B
Radiated Emissions	EN55022	Class B
ESD	EN61000-4-2	Perf. Criteria A
Radiated Immunity	EN61000-4-3	Perf. Criteria A
Fast Transient	EN61000-4-4	Perf. Criteria A
Surge	EN61000-4-5	Perf. Criteria A
Conducted Immunity	EN61000-4-6	Perf. Criteria A
Chassis Material	Aluminium	
Connectors	Screw Terminal	
Weight	134g	
Packing Quantity	1 pc.	
Dimensions	101.6 x 57.15 x 19.0mm	
Certifications	LVD20110124	EN-60950-1:2006 + A11:2009 + A1:2010

DIN-Rail Version

Input Voltage Range	see selection guide	
Inrush current	Nominal Vin and Full Load	<15A
Startup time	Power up: Nominal Vin and Full Load CTRL pin: Nominal Vin and Full Load	100ms typ. 20ms typ.
Thermal impedance	4.2°C/W	
Conducted Emissions	EN55022	Class B
Radiated Emissions	EN55022	Class B
ESD	EN61000-4-2	Perf. Criteria A
Radiated Immunity	EN61000-4-3	Perf. Criteria A
Fast Transient	EN61000-4-4	Perf. Criteria A
Surge	EN61000-4-5	Perf. Criteria A
Conducted Immunity	EN61000-4-6	Perf. Criteria A
Chassis Material	Aluminium	
Connectors	Screw Terminal	
Weight	182g	
Packing Quantity	30 pcs.	
Dimensions	125.0 x 57.6 x 24.5mm	
Certifications	LVD20110124	EN-60950-1:2006 + A11:2009 + A1:2010

Derating Graph (Ambient Temperature) - DIN Rail version

Derating graphs are valid only for the shown part numbers.
If you need detailed derating information about a part number not shown here please contact our technical customer service at info@recom-development.at



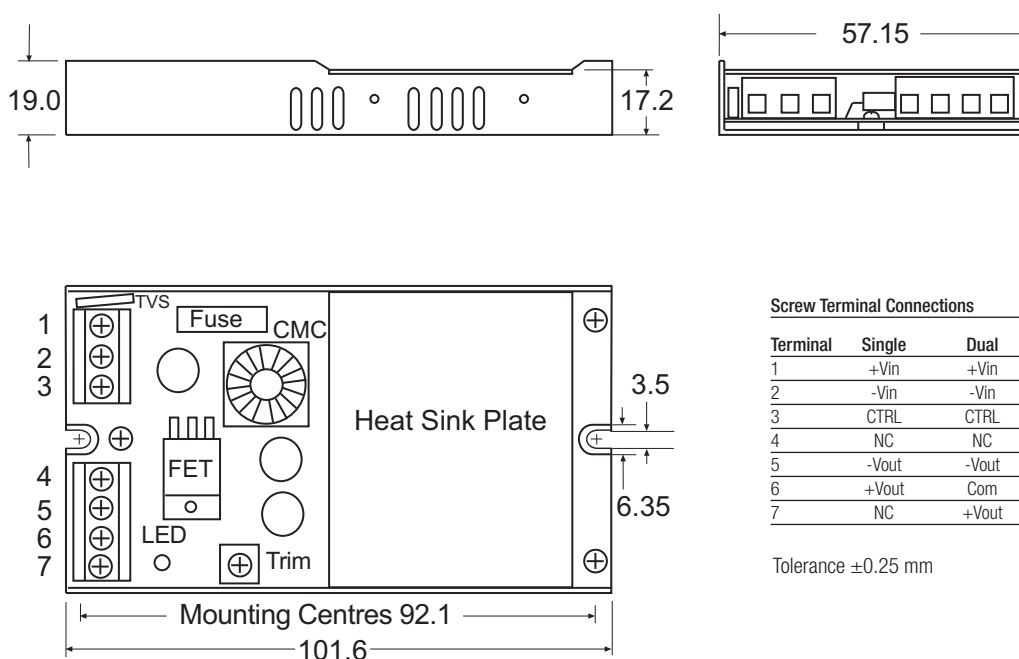
POWERLINE

DC/DC-Converter

Power Module Series

Package Style and Connections

Panel Mount Version

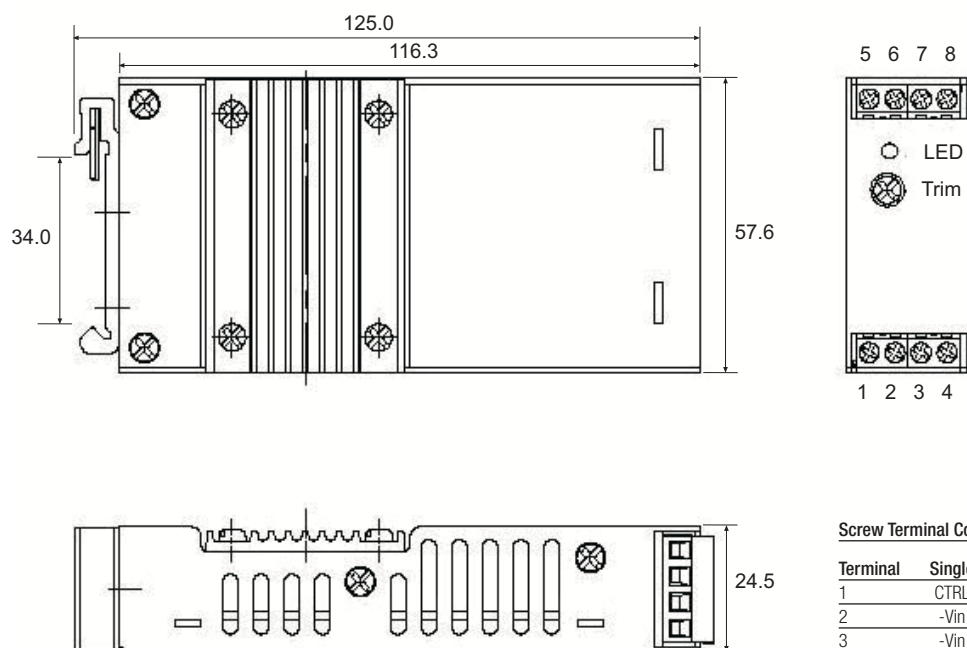


Screw Terminal Connections

Terminal	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	CTRL	CTRL
4	NC	NC
5	-Vout	-Vout
6	+Vout	Com
7	NC	+Vout

Tolerance ± 0.25 mm

DIN Rail Version



Screw Terminal Connections

Terminal	Single	Dual
1	CTRL	CTRL
2	-Vin	-Vin
3	-Vin	-Vin
4	+Vin	+Vin
5	NC	NC
6	-Vout	-Vout
7	+Vout	Com
8	NC	+Vout

Tolerance ± 0.5 mm