TDK-Lambda

LS200

PA607-01-01 SPECIFICATIONS

	MODEL		1 0200 2 2	I C200 5	1 0200 7 5	I C200 12	I C200 15	1 0200 24	1 0200 26	I C200 40	REV
	ITEMS		LS200-3.3	LS200-5	LS200-7.5	LS200-12	LS200-15	LS200-24	LS200-36	LS200-48	
1	Nominal Output Voltage	V	3.3	5	7.5	12	15	24	36	48	
2	Maximum Output Current	Α	40	40	26.7	16.7	13.4	8.4	5.6	4.2	
3	Peak Output Current (115/230VAC) (*12)	Α			-			10.4	6.9	-	
4	Maximum Output Power	W	132	200	200.3	200.4	201	201.6	201.6	201.6	
5	Max. Peak Output Pow (115/230VAC) (*12)	W			-			250	250	-	
6	Efficiency (Typ.) (115/230VAC) (*1)	%	67 / 68	72 / 75	74 / 77	76 / 79	80 / 83	82 / 84	82 / 85	82 / 85	
7	Input Voltage Range (*2)	-			85 ~ 264	VAC (47 ~ 63	3Hz) or 120 ~	373VDC			
					(Withs		Surge for 5 se	econds)			
	Input Current (Typ.) (115/230VAC) (*1)	Α					/ 1.7				
9	Inrush Current (Typ.) (*3)	-					a=25°C (Cold				
	Harmonic Current (230VAC) (*1)	-			В		C61000-3-2, -	3			
	Power Factor (Typ) (115/230VAC) (*1)	-			1	> 0.98		T			
	Output Voltage Range	V	3 ~ 3.6	4.75 ~ 5.5	6.8 ~ 8.2	10.8 ~ 14.4	13.5 ~ 16.5	22 ~ 28.8	32 ~ 40	42 ~ 57.6	
	Ripple & Noise (* 1, 4)		80	80	80	120	120	120	150	200	
	Line Regulation (*5,6)		16	20	20	48	60	96	144	192	
	Load Regulation (*5,7)	mV	50	50	50	96	120	192	288	384	
	Temperature Coefficient	-					0.02%/°C				
17	Over Current Protection (*8)	Α	105% - (n		ut current) for 3	3.3V ~ 15V &	48V and 105%	6 - (peak outpu	t current) for 2	4V ~ 36V	
	Over Voltage Protection (*9)	V	3.8 ~ 4.45	5.75 ~ 6.75	8.6 ~ 10.1	15.1 ~ 17.75	17.25 ~ 20.25	30.25 ~ 35.5	41.4 ~ 48.6	60 ~ 69.6	
	Over Temperature Protection (*9)	-					es				
	Remote ON/OFF	-		C	N2: 3 ~ 12VD			DC POWER O	N		
	Hold-up Time (Typ.) (115/230VAC) (*1)	-					ms				
	Leakage Current (* 10)	-					0VAC, 60Hz				
	Series Operation	-					sible				
	Operating Temperature (* 11)	-			- 25 ~ + 70		Output Derati				
	Operating Humidity	-					(No Dewdrop))			
	Storage Temperature	-					~ +85°C				
	Storage Humidity	-					(No Dewdrop))			
	Cooling (*11)	-					r (Exhale)				
29	Withstand Voltage	-		Inpu	1	`	// I	: 1.5kVAC (20)mA).		
		-					C (100mA) for				
_	Isolation Resistance	-	Inpu	t - FG, Input -					t 25°C and 709	6RH	
31	Vibration	-					55Hz (sweep fo				
					19.6n		X, Y, Z 1hour	each.			
	Shock (In package)	-				Less than					
	Safety	-					EC60950-1 2n				
_	EMI	-					1/EN55022-B,				
35	Immunity	-		Bui		*		vel 3), -4 (Leve	el 3),		
					-5 (Lev		el 3), -8 (Level	4), -11			
	Weight (Typ.)	g					00				
	Warranty	-					ear				
	Dimension (L x W x H)	mm			199 x	98 x 41 (Refer	to Outline Dra	awing)			

 $[\]ensuremath{^{*}}$ Read instruction manual carefully , before using the power supply unit.

- = NOTES=
- * 1 : At Maximum Output Power, nominal input voltage, $\,$ Ta=25 $^{\circ}\text{C}.$
- * 2 : For cases where conformance to various safety specs (UL, CSA, IEC) are required, to be described as $100 \sim 240 \text{VAC}$, 50 / 60 Hz on name plate.
- st 3 : Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- * 4: Ripple & noise are measured at 20MHz by using a 300mm twisted pair of load wires terminated with a 0.1uF film capacitor and a 47uF electrolytic capacitor.
- * 5 : Measure line & load regulation at output terminal M3.5 tapped point.
- * 6 : $85 \sim 264$ VAC, constant load.
- * 7 : No load ~ Full load (Maximum power), constant input voltage.
- * 8: Constant current limiting with automatic recovery. Avoid to operate at overload and dead short for more than 30 seconds
- \ast 9 : OVP, OTP circuit will shutdown output, manual reset (Re-power on).
- * 10: Measured by each measuring method of UL and IEC (at 60Hz), Ta=25°C.
- st 11: Refer to Output Derating Curve (PA607-01-02-_) for details of output derating versus ambient temperature.
- * 12: Operating period at peak output current is less than 10sec., duty <0.35%
- * 13: All parameters NOT specifically mentioned are measured at 230VAC input, rated load and Ta=25°C.

LS200

PA579-01-02 OUTPUT DERATING

Ta (°C)	LOAD (%)	STANDARD MOUNTING
-25 ~ + 50	100	STANDARD MOUNTING (A)
70	60	

