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LS100

SPECIFICATIONS

PA577-01-01E

	ITEMS / MODEL		LS100-3.3	LS100-5	LS100-12	LS100-15	LS100-24	LS100-36	LS100-48
1	Nominal Output Voltage	V	3.3	5	12	15	24	36	48
2	Maximum Output Current	A	20	16	8.5	7	4.5	3	2.3
3	Maximum Output Power	W	66	80	102	105	108	108	110.4
4	Efficiency (Typ) (230VAC) (* 1)	%	75	79	82	84	86	86	86
5	Input Voltage Range (* 2, 13)	–	88 ~ 264VAC (47-63Hz) or 125 ~ 373VDC (Withstand 300VAC Surge for 5 seconds)						
6	Input Current (Typ) (115/230VAC) (* 1)	A	2.2 / 1.2						
7	Inrush Current (Typ) (* 3)	–	60A at 230VAC, Ta=25°C (Cold Start)						
8	Harmonic Current	–	Designed to meet IEC61000-3-2, -3						
9	Output Voltage Range	V	3 ~ 3.6	4.75 ~ 5.5	10.8 ~ 13.2	13.5 ~ 16.5	22 ~ 27.2	32 ~ 40	42 ~ 54
10	Ripple and Noise (* 1, 4)	mV	80	80	120	120	120	150	200
11	Line Regulation (* 5, 6)	mV	20	20	48	60	96	144	192
12	Load Regulation (* 5, 7)	mV	40	40	96	120	192	288	384
13	Temperature Coefficient	–	Less than 0.02%/°C						
14	Over Current Protection (* 8)	A	> 110% rated output power						
15	Over Voltage Protection (* 9)	V	3.8 ~ 4.45	5.75 ~ 6.75	13.8 ~ 16.2	17.25 ~ 20.25	27.6 ~ 32.4	41.4 ~ 48.6	55.2 ~ 64.8
16	Hold-Up Time (Typ) (115/230VAC) (* 1)	mS	25 / 150						
17	Leakage current (* 10)	–	< 1mA at 230VAC, 60Hz						
18	Series Operation	–	Possible						
19	Operating Temperature (* 11)	–	- 25 ~ + 70 °C (Refer to Output Derating Curve)						
20	Operating Humidity	–	20 ~ 90 %RH (No dewdrop)						
21	Storage Temperature	–	- 40 ~ +85°C						
22	Storage Humidity	–	10 ~ 95%RH (No dewdrop)						
23	Cooling	–	Convection cooling						
24	Withstand Voltage	–	Input - Output : 3.0kVAC (20mA), Input - FG : 1.5kVAC (20mA) Output - FG : 500VAC (100mA) for 1min.						
25	Isolation Resistance	–	Input - FG, Input - Output and Output - FG: More than 100MΩ (500VDC) at 25°C and 70%RH						
26	Vibration	–	At no operating, 10 - 55Hz (sweep for 1min) 19.6m/s^2 Constant, X, Y, Z 1hour each.						
27	Shock (In package)		Less than 196.1m/s^2						
28	Safety	–	Approved by UL62368-1, CSA62368-1, IEC62368-1, IEC60950-1, CE, UKCA, IS 13252(Part 1)						
29	EMI	–	Designed to meet EN55011/EN55032-B, FCC-B						
30	Immunity	–	Designed to meet EN61000-4-2 (Level 2,3), -3 (Level 3), -4 (Level 3), -5 (Level 3,4), -6 (Level 3), -8 (Level 4), -11						
31	Weight (Typ)	g	600						
32	Dimension (L x W x H)	mm	159 x 97 x 38 (Refer to Outline Drawing)						

*** Read instruction manual carefully , before using the power supply unit.**

= NOTES=

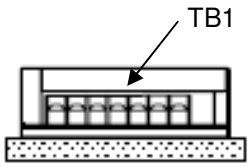
* 1 : At Maximum Output Power, nominal input voltage, Ta = 25°C.
* 2 : For cases where conformance to various safety specs (UL, CSA) are required, to be described as 100 - 240VAC, 50 / 60Hz on name plate.
* 3 : Not applicable for the in-rush current to Noise Filter for less than 0.2mS.
* 4 : Ripple & 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 : 88 - 264VAC, constant load.
* 7 : No load - Full load (Maximum power), constant input voltage.
* 8 : Current limit with automatic recovery.
  Avoid to operate at overload or dead short for more than 30 seconds.
* 9 : OVP circuit will shutdown output, manual reset (Re-power on).
* 10: Measured by each measuring method of UL (at 60Hz), Ta=25°C.
* 11: Refer to Output Derating Curve (PA577-01-02_) for details of output derating versus ambient temperature.
* 12: All parameters NOT specifically mentioned are measured at 230VAC input, rated load and Ta = 25°C.
* 13: Refer to Output Derating Curve (PA577-01-03_) for details of output derating versus input voltage..

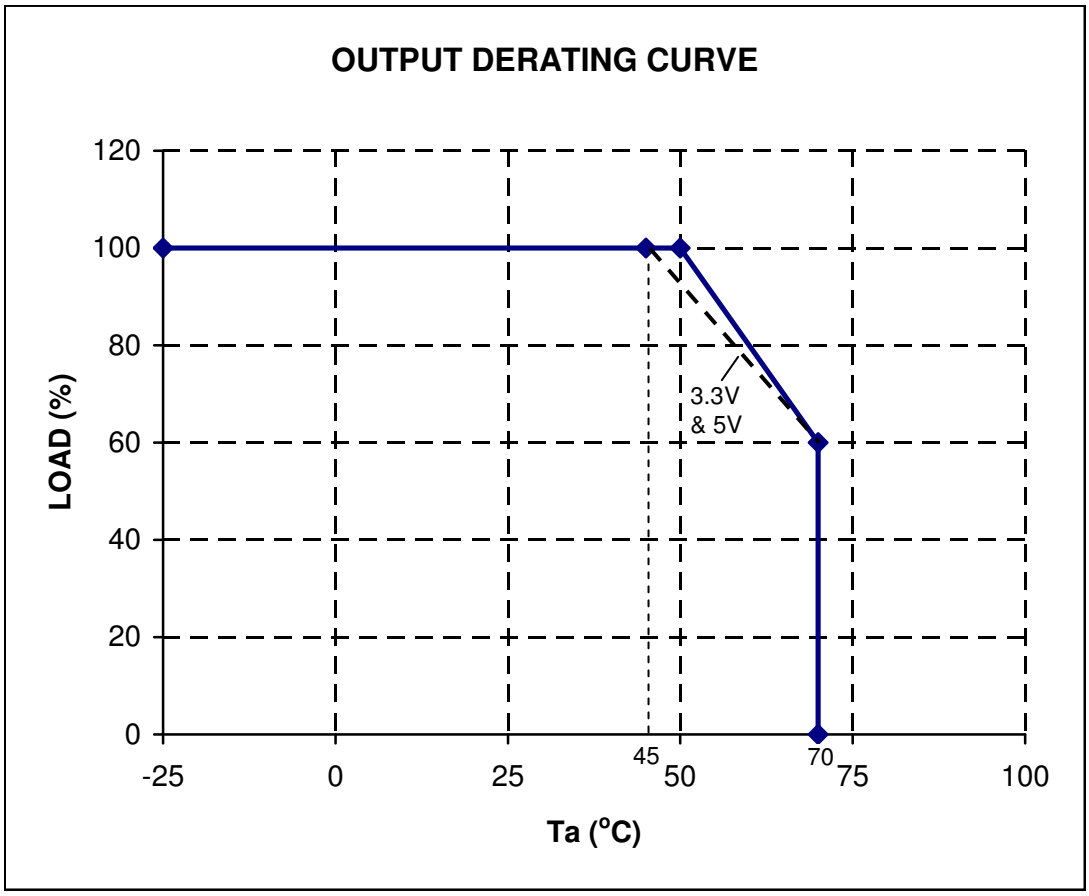
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PA577-01-02

OUTPUT DERATING

***COOLING : CONVECTION COOLING**

Ta (°C)	LOAD (%)	STANDARD MOUNTING
-25 ~ +45	100	
50	92(3.3 & 5V), 100(OTHERS)	
70	60	

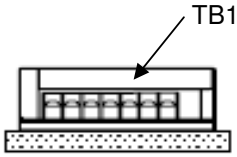


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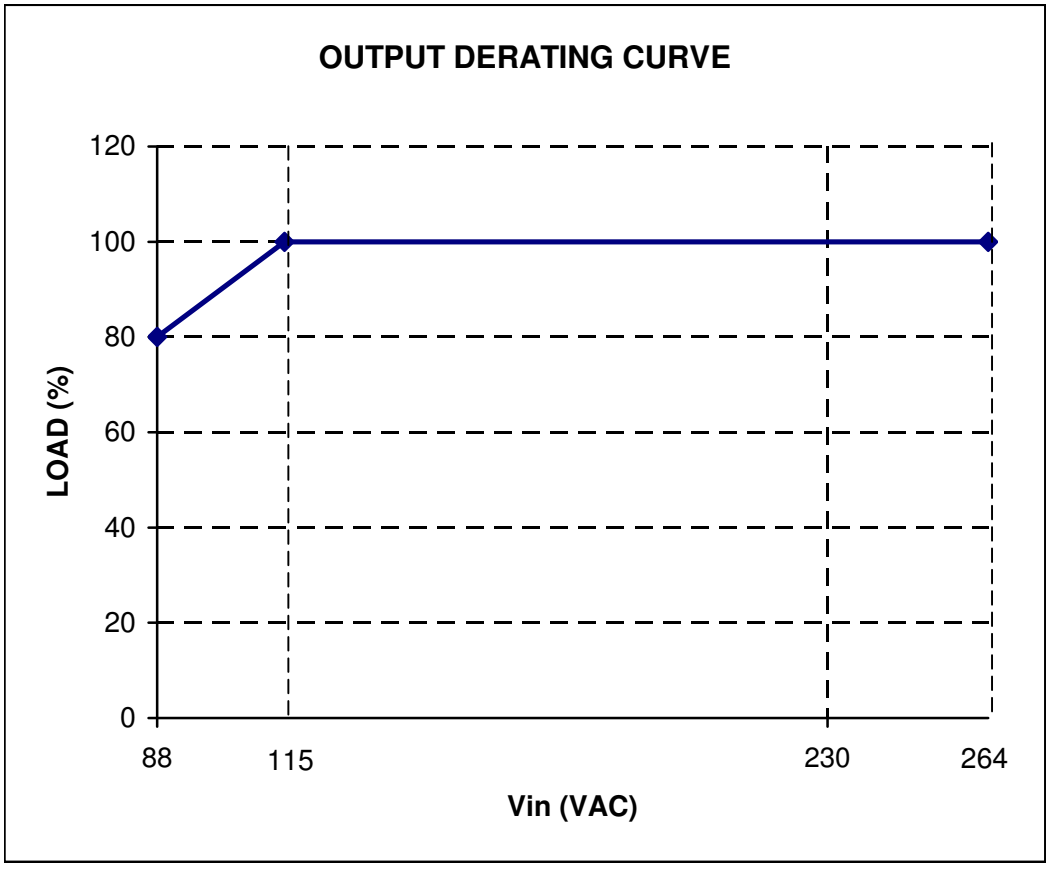
PA577-01-03

OUTPUT DERATING

***COOLING : CONVECTION COOLING**

Vin (VAC)	LOAD (%)	STANDARD MOUNTING
88 115 ~ 264	80 100	

***Ta = 25°C**



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