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SPB-100-xx Series

100W, Single Output
Green mode function



129 x 95 x 30 mm
5.08 x 3.74 x 1.18 inch
UK CA cULus CBCE

Features:

- * Green mode design , no load < 0.3W
- * 1U low profile 30mm
- * Altitude during operation up to 16404ft (5000m)
- * High efficiency and high reliability
- * Power ON with LED indicator
- * Built in EMI filter, low ripple noise
- * Over voltage , over load & short circuit protection
- * Output voltage $\pm 10\%$ adjustment
- * 100% full load burn-in test
- * UL, cUL, CB, CE approved
- * 3 years warranty

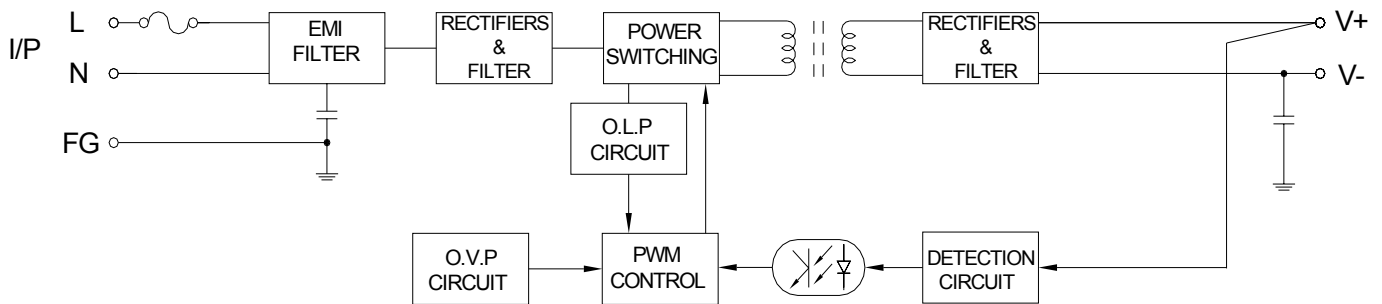
Specification:

INPUT	Voltage	85V ~ 264VAC universal full range or 120V ~ 375VDC.					
	Frequency	47 ---- 63 Hz					
	Current	<2.2A @100V AC input, full load condition					
	Inrush Current(TYP.)	50A@230V AC input. Cold start at 25°C ambient					
	Leakage Current	<0.75mA@264V AC input					
OUTPUT	MODEL No.	SPB-100-05	SPB-100-7.5	SPB-100-12	SPB-100-15	SPB-100-24	SPB-100-48
	Voltage	5V	7.5V	12V	15V	24V	48V
	Min Load	0A	0A	0A	0A	0A	0A
	Max Load	18A	13.6A	8.5A	7A	4.5A	2.3A
	Output Tolerance ②	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple Noise MAX. ③	100mV	100mV	120mV	120mV	150mV	200mV
	Efficiency (TYP.)	84.5%	85.5%	86.5%	87%	88.5%	89.5%
	Output MAX.	90W	102W	102W	105W	108W	110.4W
PROTECTION	Over Voltage	5.75V~6.75V	8.63V~10.13V	13.8V~16.2V	17.25V~20.25V	27.6V~32.4V	55.2V~64.8V
		Shutdown and latch off, recover after re-start up.					
	Over Load & Short Circuit	When power supply over 105% ~ 150%max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.					
ELEC. CHAR.	Over Temperature	Shutdown output voltage, recovers automatically after fault condition has been removed.					
	Rise time	<30mS					
	Hold up time	>16mS@230V, full load condition					
	Setup time	<0.5S@100 ~ 240V AC					
ENVIRONMENT	Green mode function	Power consumption at no load < 0.5W at 240VAC input					
	Temperature ④	Operating: -30 ~ +70°C ; De-rating: 50 ~ 70°C : 2.5%/°C ; Storage: -40 ~ +85°C					
	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)					
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-FG:1.8KVAC, O/P-FG:0.5KVAC, 1minute					
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG > 100MΩ/500VDC at 25°C/ 70% RH					
	Safety standard	UL 62368-1 2 nd Edition, 2014-12-01, CSA C22.2 No.62368-1-14 2 nd Edition, 2014-12 IEC60950-1:2005/AMD2 : 2013, IEC 62368-1:2014, approved					
EMC	EMI	EN /BS EN 55032 CLASS B, FCC CFR 47 PART 15 CLASS B Compliance to EN /BS EN61000-3-2 CLASS A, EN /BS EN61000-3-3					
	EMS	EN /BS EN 55035:2017 EN /BS EN 61000-4-2,3,4,5,6,8,11					
OTHERS	Cooling	Natural cooling					
	M.T.B.F.	396 K hours					
	Dimension	129 x 95 x 30 mm (L*W*H)					
	Packing	N.W.: 0.33 Kg / 1pc; 40 pcs / 1.22 CUFT / 1 CTN					

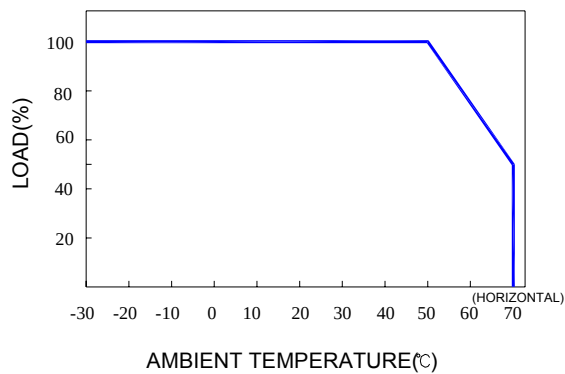
NOTE	① All measurements which not mentioned are based on 230VAC input, output Max at ambient 25°C / 70%RH
	② Output tolerance included set up voltage, line regulation and load regulation.
	③ Ripple & noise are measured at 100~254VAC input with 10~50°C condition and 20MHz of bandwidth by using a 10" ~ 15" twisted pair-wire terminated with a 0.1uF & a 47uF parallel capacitor.
	④ The operating temperature shall follow the de-rating curve in spec The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC.
	⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.

SPB-100-xx Series

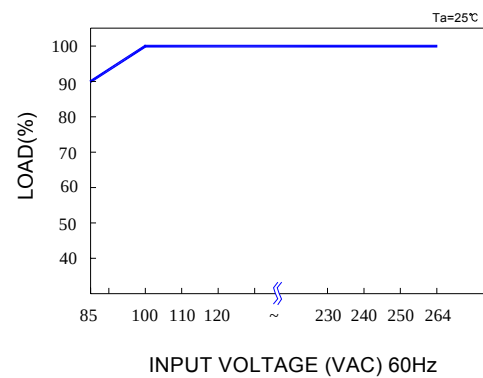
Block Diagram : US14-1



De-rating Curve :

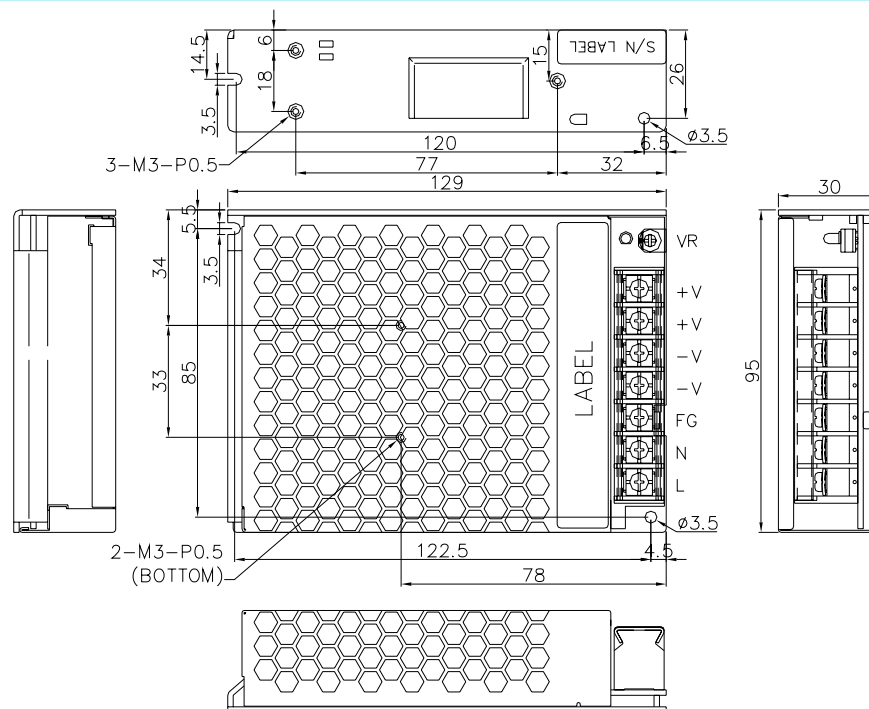


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTES:

TERMINAL BLOCK: 7P, PITCH 9.5mm WITH PC COVER.

MODEL No.	1	2	3	4	5	6	7
SPB-100-xx	L	N	FG	-V	-V	+V	+V