

100W Single Output with Battery Charger(UPS Function) **PSC-100** series



- Features :
- Universal AC input / Full range
- 5"x3" compact size
- Models with L-Bracket and cover available (PSC-100x-C, x=A,B)
- · Protections: Short circuit / Overload / Over voltage
- · Battery low protection / Battery reverse polarity protection by fuse
- · Relay contact signal output for AC OK and Battery Low
- · Cooling by free air convection
- 100% full load burn-in test

PSC-100	A-C =Blank,-C;	Blank=PCB only,	-C=Enclosed type				
MODEL		PSC-100A		PSC-100B	PSC-100B		
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH1	CH2		
	DC VOLTAGE	13.8V	13.8V	27.6V	27.6V		
	RATED CURRENT	4.75A	2.5A	2.4A	1.25A		
	CURRENT RANGE	0~7A		0~3.5A			
	RATED POWER	100.05W		100.74W	1		
	RIPPLE & NOISE (max.) Note.2	100mVp-p		100mVp-p			
	VOLTAGE ADJ. RANGE	CH1: 12 ~ 15V		CH1: 24 ~ 29V			
	VOLTAGE TOLERANCE Note.3			±1.0%			
	LINE REGULATION	±0.5%		±0.5%			
	LOAD REGULATION	±0.5%		±0.5%			
		2400ms, 30ms/230VA0	C 2400ms, 30ms/115VA0				
	HOLD UP TIME (Typ.)	40ms/230VAC 14ms/115VAC at full load					
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	86% 88%					
INPUT	AC CURRENT (Typ.)	2A/115VAC 1.2A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START 35A/115VAC 70A/230VAC 70A/230VAC					
	LEAKAGE CURRENT	COLD START SDAFTSVAC 70A/250VAC <1ma/240VAC					
		105 ~ 150% rated output power					
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed					
PROTECTION		CH1:14.49 ~ 18.63V CH1:28.98 ~ 37.26V					
PROTECTION	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover					
	BATTERY CUT OFF	10±0.5V	dowin o/p voltage, re-power or		20±1V		
		Relay contact output, ON : AC OK ; OFF : AC Fail ; Max. rating : 30V / 1A					
ALARM	AC UN NOTE.0	Relay contact output, ON : AC OK ; OFF : AC Fail ; Max. rating : 30V / 1A Relay contact output, OFF : Battery OK ; ON : Battery Low ; Max. rating : 30V / 1A					
FUNCTION	BATTERY LOW				< 221/		
		Battery low voltage : < 11V Battery low voltage : < 22V					
ENVIRONMENT	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C , 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C) on CH1 output					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020					
	MTBF		HDBK-217F (25℃)				
OTHERS	DIMENSION	PCB:127*76.2*31mm (L*W*H) ; Enclosed type:130*85*37mm (L*W*H)					
	PACKING	0, 1	0, ,	pe:0.44Kg;32pcs/15Kg/0.64CUFT load and 25¢ of ambient temper			

6. Heat sink HS2, HS3 must have safety isolation distance from system case.

7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 230mm*230mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) Please refer to suggest application (2) (4) in page 3.
 The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).



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Alarm Output Connector(CN3): JST B4B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1 2 0 0	AC OK	JST XHP	JST SXH-001T-P0.6 or equivalent
3 4 0 0	Bat. Low	or equivalent	

1.HS2,HS3 cannot be shorted.

2.HS2,HS3 must have safety isolation distance from system case. 3.-V and Bat- can not be shorted.

4.M1 is safety ground. For better EMC performance,Please secure an electrical connection between M1,M2,M3,and chassis grounding.





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