



Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 89%
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- 1U low profile 41mm
- Built-in cooling fan ON-OFF control
- Built-in DC OK signal
- Built-in remote ON-OFF control
- Standby 5V@0.3A
- Built-in remote sense function
- No load power consumption<0.5W (Note.6)
- 5 years warranty



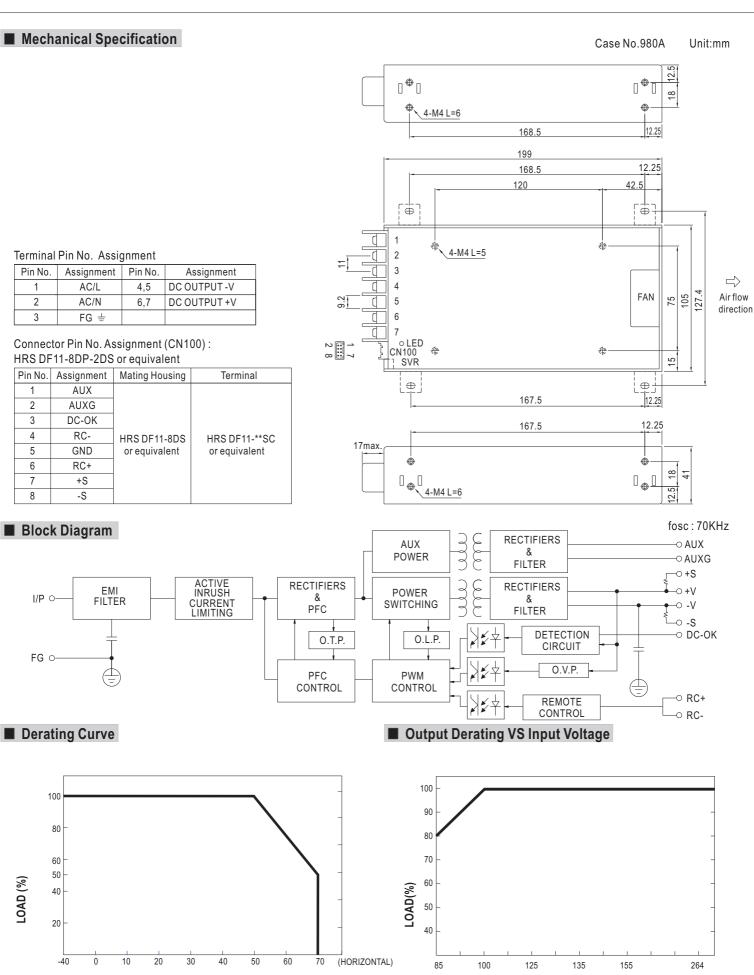
SPECIFICATION

MODEL		MSP-300-3.3	MSP-300-5	MSP-300-7.5	MSP-300-12	MSP-300-15	MSP-300-24	MSP-300-36	MSP-300-48		
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V		
ОИТРИТ	RATED CURRENT	60A	60A	40A	27A	22A	14A	9A	7A		
	CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 40A	0 ~ 27A	0 ~ 22A	0 ~ 14A	0 ~ 9A	0 ~ 7A		
	RATED POWER	198W	300W	300W	324W	330W	336W	324W	336W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	90mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-p		
	VOLTAGE ADJ. RANGE	2.8 ~ 3.8V	4.3 ~ 5.8V	6.8 ~ 9V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	28.8 ~ 39.6V	40.8 ~ 55.2V		
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1000ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load									
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load									
	VOLTAGE RANGE Note.5	85 ~ 264VAC 120 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.99/115VAC at full load									
INPUT	EFFICIENCY (Typ.)	80%	82%	86%	88%	88%	87%	88%	89%		
• .	AC CURRENT (Typ.)	4.5A/115VAC 2.25A/230VAC									
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC									
	LEAKAGE CURRENT	Earth leakage current < 450μA/264VAC , Touch leakage current < 100μA/264VAC									
		105 ~ 135% rated output power									
	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed									
		3.96 ~ 4.62V	6 ~ 7V	9.4 ~ 10.9V	14.4 ~ 16.8V	18.8 ~ 21.8V	30 ~ 34.8V	41.4 ~ 48.6V	57.6 ~ 67.2\		
PROTECTION	OVER VOLTAGE	Protection type	: Shut down o/i	p voltage, re-pov	wer on to recove	r					
		7.									
	OVER TEMPERATURE	$90^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW1: detect on heatsink of power transistor) $100^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for $3.3\text{V},5\text{V},7.5\text{V}$; $95^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for others (TSW2: detect on heatsink of power diode)									
	OVER TERM ENGLISHE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down									
	5V STANDBY	5VSB: 5V@0.3A; tolerance ± 5%, ripple: 50mVp-p(max.)									
	DC OK SIGNAL	PSU turns on : 3.3 ~ 5.6V; PSU turns off : 0 ~ 1V									
FUNCTION	REMOTE CONTROL	RC+ / RC-: $4 \sim 10V$ or open = power on; $0 \sim 0.8V$ or short = power off									
	FAN CONTROL (Typ.)	Load 35±15% or RTH2≥50°C Fan on									
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	·									
	TEMP. COEFFICIENT										
	VIBRATION	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	-		-	ong 7, 1, 2 axes						
CAFETY	WITHSTAND VOLTAGE	ANSI/AAMI ES60601-1, IEC60601-1 approved									
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG; 2KVAC									
EMC (Note 4)	EMC EMISSION										
,	EMC IMMUNITY	Compliance to EN55011 (CISPR11) Class B, EN61000-3-2,-3									
		Compliance to EN61000-4-2,3,4,5,6,8,11, EN60601-1-2									
OTHERS	MTBF	176Khrs min. MIL-HDBK-217F (25℃)									
	DIMENSION	199*105*41mr	,								
	PACKING	0.95Kg;15pcs/15.3Kg/0.69CUFT									
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. For guidan (as available on http://www Derating may be needed up	Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. lered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ice on how to perform these EMC tests, please refer to "EMI testing of component power supplies." .meanwell.com) nder low input voltages. Please check the derating curve for more details.									

- 6. No load power consumption<0.5W when RC- & RC+ (CN100 pin4,6) 0 ~ 8V or short.

AMBIENT TEMPERATURE (°C)





INPUT VOLTAGE (V) 60Hz



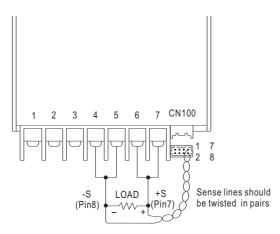
■ Function Description of CN100

Pin No.	Function	Description
1	AUX	Auxiliary voltage output, 4.75~5.25V, reference to pin 2(AUXG). The maximum load current is 0.3A. This output has the built-in oring diodes and is not controlled by the "remote ON/OFF control".
2	AUXG	Auxiliary voltage output ground. The signal return is isolated from the output terminals (+V & -V).
3	DC-OK	DC-OK signal is a TTL level signal, referenced to pin5(DC-OK GND). High when PSU turns on.
4	RC-	Remote control ground.
5	GND	This pin connects to the negative terminal(-V). Return for DC-OK signal output.
6	RC+	Turns the output on and off by electrical or dry contact between pin 4 (RC-), Short: Power OFF, Open: Power ON.
7	+S	Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
8	-S	Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.

■ Function Manual

1.Remote Sense

The remote sensing compensates voltage drop on the load wiring up to 0.5V.



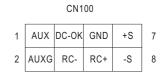
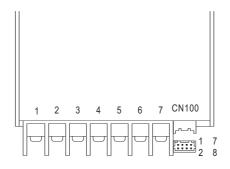


Fig 1.1

2.DC-OK Signal

DC-OK signal is a TTL level signal. High when PSU turns on.

Between DC-OK(pin6) and GND(pin4)	Output Status
3.3 ~ 5.6V	ON
0 ~ 1V	OFF



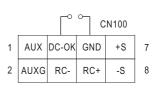


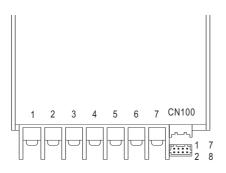
Fig 2.1



3.Remote Control

The PSU can be turned ON/OFF by using the "Remote ON/OFF" function

Between RC+(pin3) and RC-(pin5)	Output Status		
SW ON (Short)	OFF		
SW OFF (Open)	ON		



CN100

1 AUX DC-OK GND +S 7
2 AUXG RC- RC+ -S 8

SW

Fig 3.1