



■ 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
- Medical safety approved (MOOP level)
- · 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%	$\pm 0.5\%$	±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/230VA	AC							
	INRUSH CURRENT (Typ.)	35A/115VAC	70A/230VA	C							
	LEAKAGE CURRENT	Earth leakage current < 450 μA/264VAC , Touch leakage current < 100 μA/264VAC									
	OVERLOAD	105 ~ 135% rat	ed output powe	r							
		Protection type: Constant current limiting, recovers automatically after fault condition is removed									
PROTECTION		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		
	OVER VOLTAGE	Protection type	: Shut down o/p	p voltage, re-pov	ver on to recove	r					
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
	5V STANDBY	5VSB: 5V@0.3A; tolerance±5%, ripple: 50mVp-p(max.)									
FUNCTION	DC OK SIGNAL	PSU turns on : 3.3 ~ 5.6V; PSU turns off : 0 ~ 1V									
FUNCTION	REMOTE CONTROL	RC+ / RC-: 4 ~ 10V or open = power on; 0 ~ 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	-40 ~ +85°C , 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	IEC 60601-1:2005+A1+A2, ANSI/AAMI ES60601-1:2005+A2, CAN/CSA C22.2 No. 60601-1:2014+A2 EAC TP TC 004 approved; Design refer to BS EN/EN60335-1, BS EN/EN 62368-1(by request)									
	ISOLATION LEVEL			•	-		(2) (24223)				
SAFETY &	WITHSTAND VOLTAGE	Primary-Secondary: 2*MOOP, Primary-Earth: 1*MOOP I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG. O/P-FG:0.0NVAC									
(Note 4)	EMC EMISSION	Compliance to BS EN/EN55011 (CISPR11) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020									
	EMC IMMUNITY							TP TC 020			
	MTBF	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035,BS EN/EN60601-1-2, EAC TP TC 020									
OTHERS	DIMENSION	1337.5K hrs min. Telcordia SR-332 (Bellcore) ; 175.8K hrs min. MIL-HDBK-217F (25°C)									
OTHERS		199*105*41mm (L*W*H)									
	PACKING	0.95Kg;15pcs/15.3Kg/0.79CUFT Ily mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.									

- 4. 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 360mm*360mm 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."

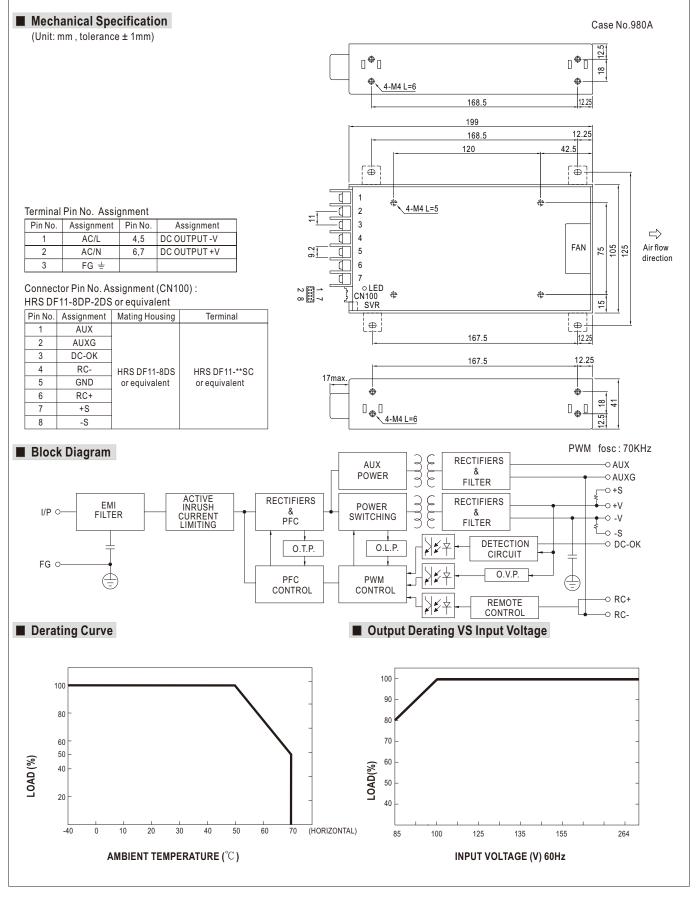
 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

- 5. Derating may be needed under 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.

 7. 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).
- % Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







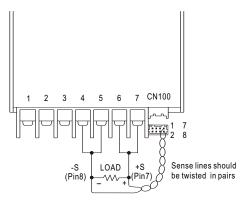
■ Function Description of CN100

Pin No.	Function	Description
1		Auxiliary voltage output, 4.75~5.25V, reference to pin 2(AUXG). The maximum load current is 0.3A. This output 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		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		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 0.5 V.



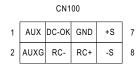
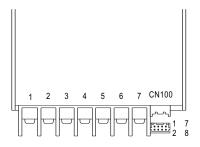


Fig 1.1

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



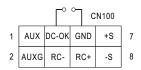


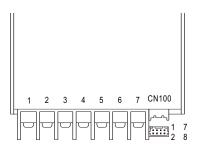
Fig 2.1



3.Remote Control

The PSU can be turned ON/OFF by using the "Remote ON/OFF" function $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}{2}\left$

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