

Наличие и актуальные цены на

MSP-600-12

https://www.mean-well.ru/store/MSP-600-12/

User's Manual





GTIN CODE

SPECIFICATION

MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.94
- High efficiency up to 89%
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 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<0.8W (Note.7)
- Current sharing up to 2400W (3+1) (24V,36V,48V)
- 5 years warranty



PECIFIC	Allon										
MODEL		MSP-600-3.3	MSP-600-5	MSP-600-7.5	MSP-600-12	MSP-600-15	MSP-600-24	MSP-600-36	MSP-600-48		
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V		
ОИТРИТ	RATED CURRENT	120A	120A	80A	53A	43A	27A	17.5A	13A		
	CURRENT RANGE	0 ~ 120A	0 ~ 120A	0 ~ 80A	0 ~ 53A	0 ~ 43A	0 ~ 27A	0 ~ 17.5A	0 ~ 13A		
	RATED POWER	396W	600W	600W	636W	645W	648W	630W	624W		
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-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 ~ 55.2\		
	VOLTAGE TOLERANCE Note.3	±2.0%	±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									
INPUT	() ,	85 ~ 264VAC	120 ~ 370V	DC							
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.93/230VAC PF>0.99/115VAC at full load									
	EFFICIENCY (Typ.)	78.5%	82%	86%	88%	88%	88%	89%	89%		
	AC CURRENT (Typ.)	8.5A/115VAC	5A/230VAC								
	INRUSH CURRENT (Typ.)	35A/115VAC 80A/230VAC									
	LEAKAGE CURRENT	Earth leakage	Earth leakage current < 300μA/264VAC , Touch leakage current < 100μA/264VAC								
	OVERLOAD	105 ~ 135% rated output power									
		Protection type: Constant current limiting, recovers automatically after fault condition is removed									
ROTECTION	OVER VOLTAGE	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 VOLINGE	,,		p voltage, re-po							
	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 turn on : 3.3 ~ 5.6V ; PSU turn off : 0 ~ 1V									
ONOTION	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	-40 ~ +85 $^{\circ}$ C, 10 ~ 95% RH non-condensing									
	TEMP. COEFFICIENT	±0.03%/°C (0	±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	Primary-Secon	Primary-Secondary: 2×MOOP, Primary-Earth: 1×MOOP, Secondary-Earth: 1×MOOP								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
EMC (Note 4)	ISOLATION RESISTANCE	I/P-O/P, I/P-F0	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC EMISSION	Compliance to BS EN/EN55011 (CISPR11) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020									
	EMC IMMUNITY	•		,	,	, ,					
OTHERS	MTBF	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN60601-1-2, EAC TP TC 020 138.7K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	218*105*63.5mm (L*W*H)									
	PACKING		1.57Kg;8pcs/13.6Kg/1.34CUFT								
	1 All parameters NOT enecia					°C -4 1 · · · ·					

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor.
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 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.

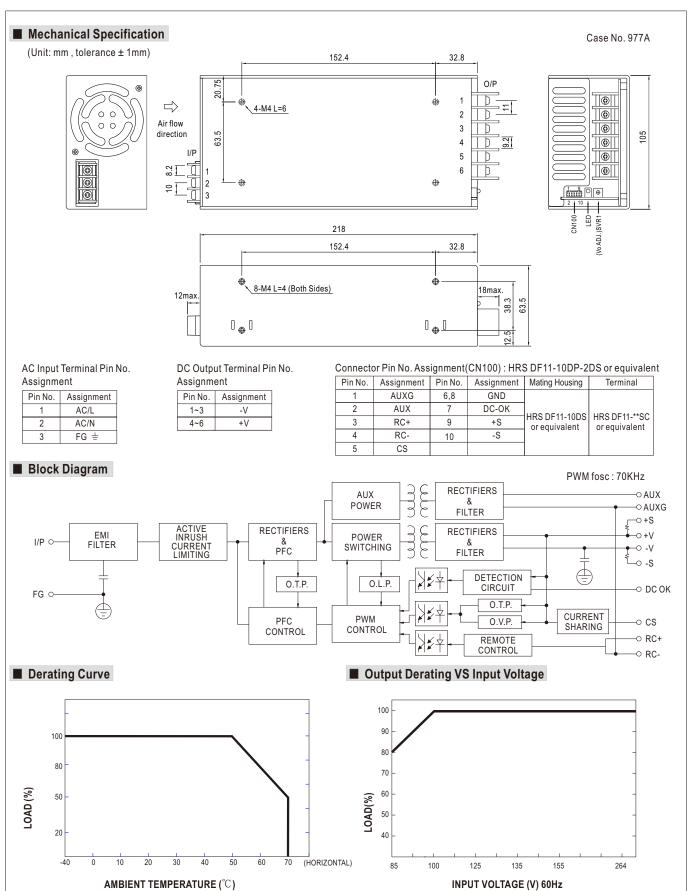
- 6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.

 7. No load power consumption<0.8W when RC+ & RC- (CN100 pin3,4) 0 ~ 0.8V or short.

 8. When the input voltage is less than 40VAC, the SPS may exhibit degradation of performance. The final product manufacturers must re-confirm this
- deviation that does not affect basic safety or essential performance.

 9. 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	AUXG	Auxiliary voltage output ground. The signal return is isolated from the output terminals (+V & -V).
2	AUX	Auxiliary voltage output, 4.75~5.25V, referenced to pin 1(AUXG). The maximum load current is 0.3A. This output is not controlled by the "remote ON/OFF control".
3	RC+	Turns the output on and off by electrical or dry contact between pin 4 (RC-), Short: Power OFF, Open: Power ON.
4	RC-	Remote control ground.
5	CS	Current sharing signal. When units are connected in parallel, the CS pins of the units should be connected to allow current balance between units.
6,8	GND	This pin connects to the negative terminal(-V). Return for DC-OK signal output.
7	DC-OK	DC-OK signal is a TTL level signal, referenced to pin8(DC-OK GND). High when PSU turns on.
9		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.
10		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.

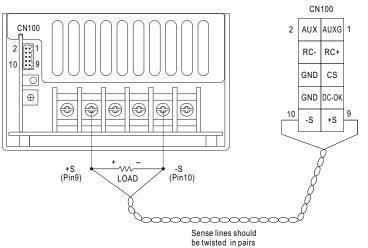
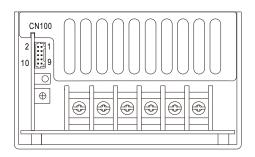


Fig 1.1

2.DC-OK Signal

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

•	. •
Between DC-OK(pin7) and GND(pin6,8)	Output Status
3.3 ~ 5.6V	ON
0 ~ 1V	OFF



CN100

2 AUX AUXG 1

RC- RC+

GND CS

GND DC-OK

10 -S +S 9

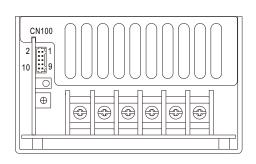
Fig 2.1



3.Remote Control

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

Between RC+(pin3) and RC-(pin4)	Output Status		
SW ON (Short)	OFF		
SW OFF (Open)	ON		



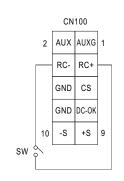
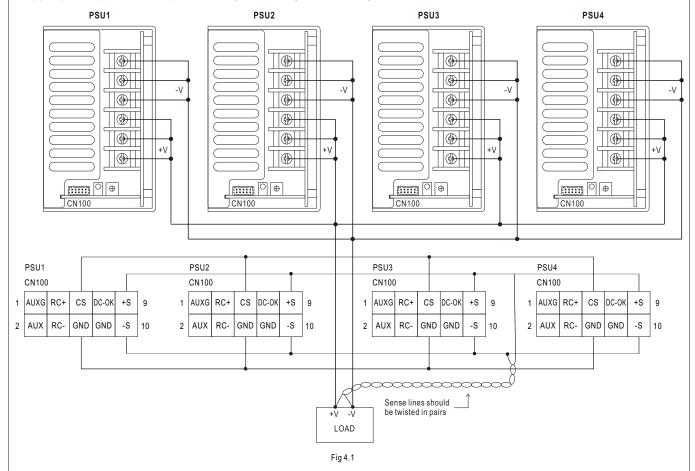


Fig 3.1

4. Current Sharing with Remote Sensing (Only for 24V, 36V and 48V)

MSP-600 has the built-in active current sharing function and can be connected in parallel to provide higher output power:

- (1)Parallel operation is available by connecting the units shown as below.
 - (+S,-S,CS and GND are connected mutually in parallel).
- (2)Difference of output voltages among parallel units should be less than 2%.
- $(3) The\ total\ output\ current\ must\ not\ exceed\ the\ value\ determined\ by\ the\ following\ equation.$
 - (output current at parallel operation)=(Rated current per unit)×(Number of unit)×0.9
- (4)In parallel operation 4 units is the maximum, please consult the manufacturer for applications of more connecting in parallel.
- (5) The power supplies should be paralleled using short and large diameter wiring and then connected to the load.



Note: 1. In parallel connection, maybe only one unit (master) operate if the total output load is less than 2% of rated load condition.

The other PSU (slave) may go into standby mode and its output LED and relay will not turn on.

2.2% min. of dummy load is required.