

Enclosed-PFC 450~1000W High Reliability Medical Grade



Features

- Universal AC input / Full range
- Medical safety approved (2xMOOP) for MSP-450/600
Medical safety approved (2xMOPP) for MSP-1000
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Built-in remote sense function
- No load power consumption <0.6W for MSP-450; <0.8W for MSP-600/1000; <0.75W for MSP-1000
- Built-in current sharing (MSP-600-24/36/48; MSP-1000)
- Built-in remote ON/OFF control
- Built-in 5V/0.3A standby output
- Built-in DC OK signal
- LED indicator for power on
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	MSP-450	MSP-600	MSP-1000
AC input voltage range	85~264VAC; 120~370VDC		90~264VAC; 127~370VDC
Leakage current	<300 μ A		
AC inrush current (max.)	Cold start, 70A at 230VAC	Cold start, 80A at 230VAC	Cold start, 40A at 230VAC
DC adjustment range	\pm 15% rated output voltage		-8%~+17% rated output voltage
Overload protection	Range	105%~135%	
	Type	Constant current limiting, auto-recovery	
Over voltage protection	115%~145%		120%~137%
Withstand voltage	I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, 1 minute		I/P-O/P: 4.5kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC, 1 minute
Working temperature	-40~+70 $^{\circ}$ C (refer to output derating curve)		
Safety standards	ANSI/AAMI ES60601-1, BS EN60601-1, EAC TP TC 004 approved		
EMC standards	BS EN/EN55011 class B for MSP-450/600, EN55032 class A for MSP-1000, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2		
Connection	3+6P / 10 & 11mm pitch terminal block with cover		
Dimension (LxWxH)(mm)	218x 105x 41	218x 105x 63.5	

450W MSP-450

Model No.	Output	Tol.	R&N	Effi.
MSP-450-3.3	3.3V, 0~90A	\pm 2%	80mV	80.0%
MSP-450-5	5V, 0~90A	\pm 2%	80mV	83.0%
MSP-450-7.5	7.5V, 0~60A	\pm 2%	100mV	86.5%
MSP-450-12	12V, 0~37.5A	\pm 1%	120mV	88.0%
MSP-450-15	15V, 0~30A	\pm 1%	150mV	89.0%
MSP-450-24	24V, 0~18.8A	\pm 1%	150mV	88.0%
MSP-450-36	36V, 0~12.5A	\pm 1%	240mV	89.0%
MSP-450-48	48V, 0~9.5A	\pm 1%	240mV	89.5%

Model No.	Output	Tol.	R&N	Effi.
MSP-600-12	12V, 0~53A	\pm 1%	150mV	88.0%
MSP-600-15	15V, 0~43A	\pm 1%	150mV	88.0%
MSP-600-24	24V, 0~27A	\pm 1%	150mV	88.0%
MSP-600-36	36V, 0~17.5A	\pm 1%	200mV	89.0%
MSP-600-48	48V, 0~13A	\pm 1%	240mV	89.0%

600W MSP-600

Model No.	Output	Tol.	R&N	Effi.
MSP-600-3.3	3.3V, 0~120A	\pm 2%	120mV	78.5%
MSP-600-5	5V, 0~120A	\pm 2%	150mV	82.0%
MSP-600-7.5	7.5V, 0~80A	\pm 2%	150mV	86.0%

1000W MSP-1000

Model No.	Output	Tol.	R&N	Effi.
MSP-1000-12	12V, 0~80A	\pm 2%	150mV	91.5%
MSP-1000-15	15V, 0~64A	\pm 1.5%	150mV	92.0%
MSP-1000-24	24V, 0~42A	\pm 1%	200mV	93.0%
MSP-1000-48	48V, 0~21A	\pm 1%	250mV	94.0%