DP0-500 SERIES:

91 CB (€



INPUT:

Input Voltage 90~264 VAC (Universal AC Input)

Input Frequency 47-63Hz

Inrush Current 70A @ 230 VAC Cold Start (max) Input Current 6A maximum tat 115VAC

Input Protection Single Fuse Hold-Up Time 8ms Minimum

Leakage Current <500 μ A (Class I) / 250 μ A (Class II) Harmonics EN61000-3-2 Class A Compliant

500 Watt / Single Output

• 5.00 x 3.00 x 1.28" UL94V-0 Plastic Case

Features:

- Open Frame Switching Power Supply
- Remote ON/OFF Function
- 240 Watt with Free Air Convection
- 500 Watt with 30CFM FAN
- Built-in 12V/0.3A Auxiliary Output
- Standby 5V@1A with Fan, @0.6A without Fan
- High Efficiency up to 92%
- With P.F.C. Function >0.95
- Ultra Compact Size: 5.0 x 3.0 x 1.28 Inches
- 3-Year Product Warranty

GENERAL:

Efficiency 88-92%

Operating Temperature -40 to +70°C, derate 2.5% / °C above 50°C

Storage Temperature -40°C to +85°C

Cooling Convection Cooled

Operating Humidity 5-95% RH, Non-Condensing

Vibration 10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.

MTBF >160k Hrs (according to MIL-HBK-217F) at 25°C

OUTPUT:

Minimum Load n/a

Output Adjustment ±5% (typical)

Line Regulation ±1% max

Load Regulation ±1% typ. pk-pk @ 20MHz

Ripple & Noise Auto-Recovery

Overload Protection Auto-Recovery

Over Voltage Auto-Recovery

Short Circuit Protection

STATUS / CONTROL

Standby Power 5vsb @ 1,00 A

Remote Sense 250mV Compensation

Remote On/Off Included

DC OK Inculded

APPROVALS:

Emissions EN55022 "B", FCC Part 15 Subject J Class B

Safety Approvals UL/cUL EN60950-1

CB IEC 60950-1

CE Mark (LVD)

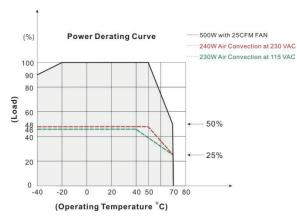


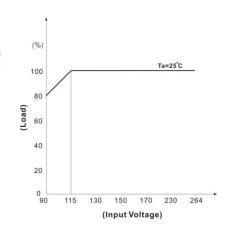


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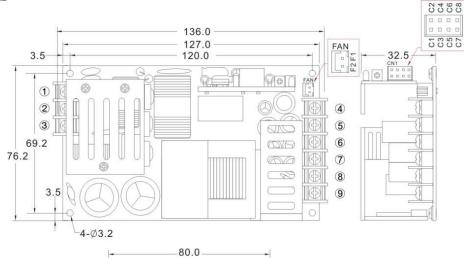
Ouput Specifications:					
Model:	V1	CONVECTION RATING AT 115 VAC INPUT	OUTPUT RATING With 30 CFM	EFFICIENCY	
DP0500-12S	12V	19.16 A	41.5 A	88%	
DP0500-24S	24V	9.58 A	20.8 A	90%	
DP0500-48S	48V	4.8 A	10.41 A	92%	

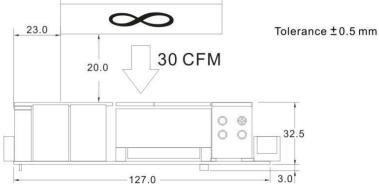
DERATING CURVES:





MECHANICAL DRAWING:





PIN#	Single
1	FG
2	AC IN (N)
3	AC IN (L)
4~6	+DC OUT
7~9	-DC OUT

Connect	Connector Pin (FAN)	
PIN#	Single	
F1	+12V	
F2	GND	

Connector Pin (CN1)		
PIN#	Single	
C1	-5VSB	
C2	+5VSB	
C3	GND	
C4	DC OK	
C5	-RC	
C6	+RC	
C7	-S	
C8	+S	

APS

DP0-500 SERIES:

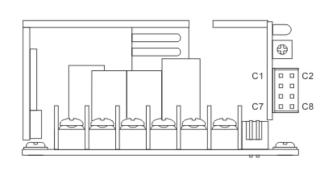
FUNCTION DESCRIPITON of CN1

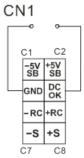
Pin No.	Function	Description
C1	-5VSB	This pin connects to the negative terminal(-V). Return for DC-OK and -RC signal output.
C2	+5VSB	Stand by voltage output ground 3.7~6V, referenced to pin C8(+5VSB). The maximum load current is 0.6A.
C3	GND	This pin connects to the negative terminal(-V). Return for DC-OK and -RC signal output.
C4	DC OK	DC-OK Signal is a DC output, referenced to pin C6(DC-OK GND).
C5	-RC	This pin connects to the negative terminal(-V). Return for DC-OK and -RC signal output.
C6	+RC	Turns the output on and off by electrical or dry contact between pin C4 (-RC), Short: Power OFF, Open: Power ON.
C7	-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 0.3V.
C8	+S	Positive 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 0.3V.

FUNCTION MANUAL & APPLICATION NOTE

1. DC-OK Signal

Between DC-OK and GND	Output Status
3.7~6V	ON
0~1V	OFF





2. Remote Control

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

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

