

DPS-060 SERIES:



60 Watt Medical Approved Switcher

- 4.00 x 2.00 x 0.97" Open Frame PCB

Features:

- Universal AC Input
- Medical Safety Approvals for 2 MOPP Applications
- EN6100-3-2 Class B Compliant
- Sanll 2 x 4" Footprint
- Low profile (less than 1 inch)
- International Safety Approvals
- 2 Year Warranty

INPUT:

Input Voltage	Universal Input (90~264 VAC)
Input Frequency	47-63Hz
Inrush Current	30.00A @ 115VAC / 60A @ 240 VAC max Cold Start
Input Current	1.4A _{rms} @ 115VAC / 0.9A _{rms} @ 240 VAC
Input Protection	Single Fuse
Hold-Up Time	16mS @ typical

GENERAL:

Efficiency	80~90% minimum
Operating Temperature	-20-70°C Full Load, (derate linearly to 50% load from 50~70°C) (-20°C can startup with 50% rated load)
Storage Temperature	-40-85°C
Operating Humidity	5% to 95% RH, non-condensing
Altitude	0 to 3000m
MTBF	> 0.4Mhrs (based on MIL-HDBK-217F, rated load, 50 oC)

OUTPUT:

Adjustment Range	Set at Factory (17.8~18.2V 60% rated load, 115Vac)
Minimum Load	None
Regulation	±0.5 Line / ±1% Load
Ripple & Noise	< 100mV (20MHz limited, 1X probe +0.47uF parallel cap)
Over Voltage	Trip point : +23V to +28V (60% rated load)
Short Circuit Protection	Trip without damage & auto-recovery

APPROVALS:

Emissions	FCC docket 20780 level B CISPR 22 level B EN 61000-3-2 Class A EN 61000-3-3
Safety Approvals	CB : IEC 60601-1 :2005 TUV : EN 60601-1 :2006 cULus : ANSI/AAMI ES 60601-1 : 2005 1st Edition CAN/CSA-C22.2 NO.60601-1 : 08. 2nd Edition
Isolation Level	Transformer : Class B Primary to secondary : double insulation, 2 MOPP Primary to PE : Basic insulation , 1 MOPP Secondary to PE : Basic insulation , 1 MOPP

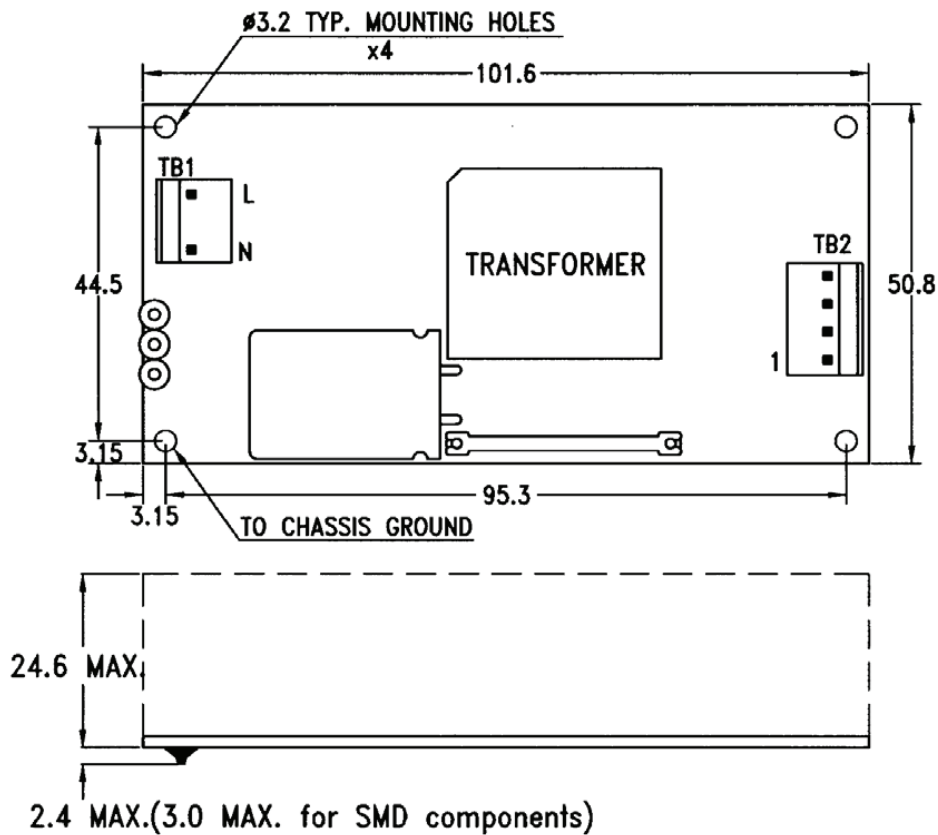
DPS-060 SERIES:

Output Specifications:

Model:	V1	LOAD CONVECTION	LOAD 18CFM	PEAK LOAD
DPS-060-1200	12V	5.00A	6.00A	8.00A
DPS-060-1500	15V	4.00A	4.80A	6.10A
DPS-060-1800	18V	3.33A	4.00A	4.70A
DPS-060-2400	24V	2.50A	3.00A	4.00A
DPS-060-4800	48V	1.30A	1.50A	2.00A

Note: 96 Watt Peak Loads can last up to 5 seconds

OUTLINE DRAWING:



Dimensions

Dimensions shown in mm as above . Tolerance specified is +/-0.4mm.

Connectors

TB1--AC Input : Molex 5277-02A or equivalent.

TB2--DC Output : Molex 5273-04A or equivalent.

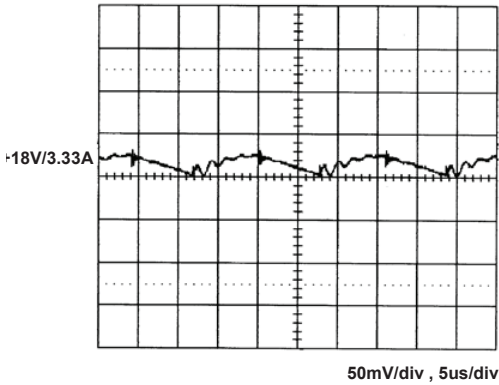
DC Output pin assignment

- Pin 1 + 18V
- 2 + 18V
- 3 GND
- 4 GND

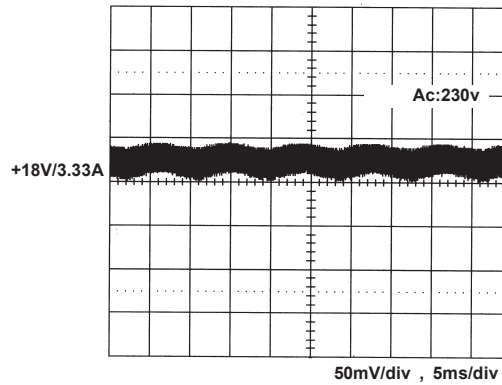
DPS-060 SERIES:

CHARACTERISTIC CURVES

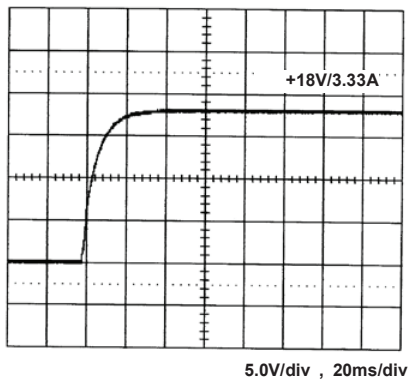
8.1 Switching frequency ripple



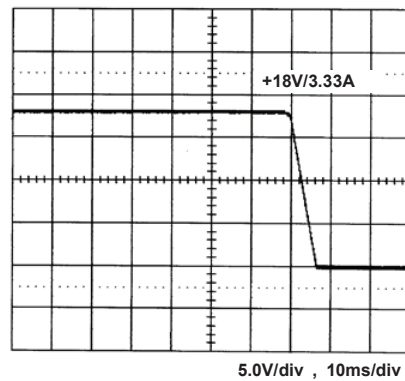
8.2 Line frequency ripple



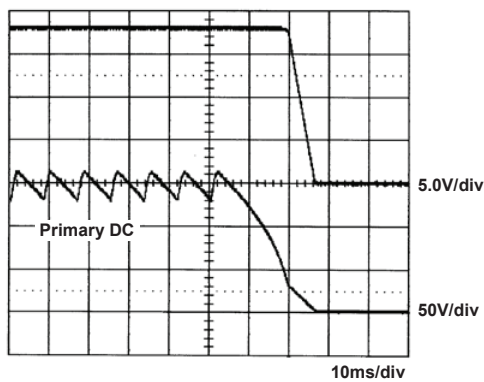
8.3 Output turn on wave form



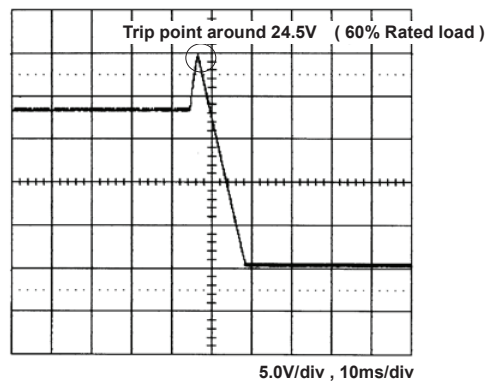
8.4 Output turn off wave form



8.5 Hold-up time



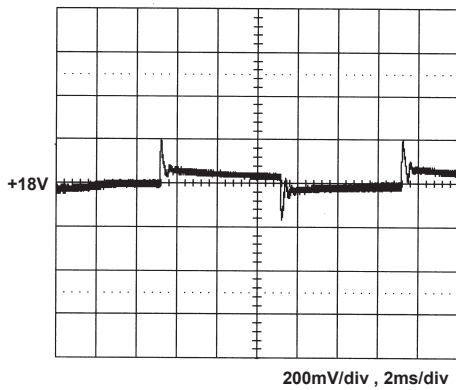
8.6 Over voltage protection



DPS-060 SERIES:

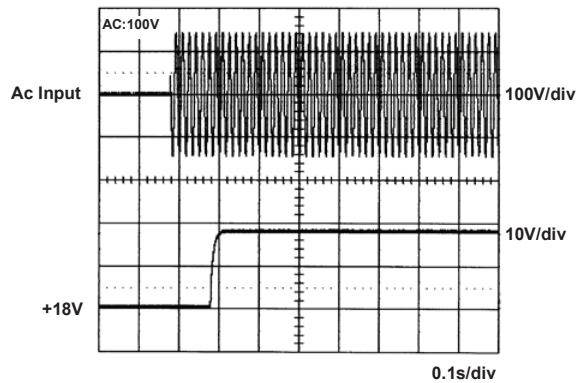
CHARACTERISTIC CURVES

8.7 +18V step response

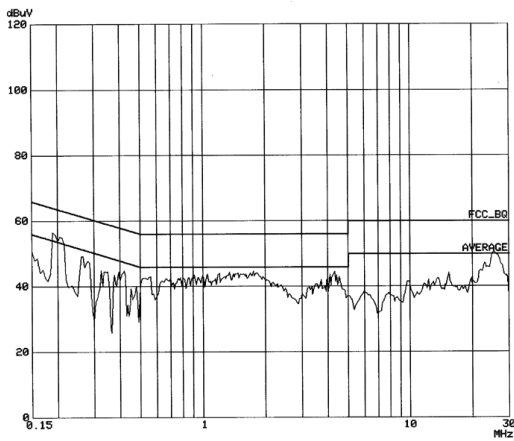


+18V step from 0.66A to 3.33A

8.8 Start up Time



8.9 FCC B performance



8.10 EN55022 "B"

