

SPECIFICATION

and

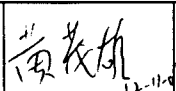
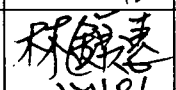
PERFORMANCE

M/N : SNP-D249

SWITCHING POWER SUPPLY

Used for

WORKING SAMPLE APPROVAL

Prepared by Design Engineer						
Typed by Document Assistant						
SKYNET ELECTRONIC		LAST REV. NO. D249-1210				

1.0 INTRODUCTIONS

The SNP-D249 is a adjustable single output, universal input, 240 watts switching mode power supply which designed for Din-Rail application.

2.0 INPUT SPECIFICATIONS

2.1 Input Voltage

The range of input voltage is from 90VAC to 264VAC. The AC rating shows on label : AC 115/230V.

2.2 Input frequency

The range of input frequency is from 47Hz to 63Hz.

2.3 Input current

The maximum input current is 6A at 115VAC or 2.6A at 230VAC.

2.4 Inrush current

The inrush current will not exceed 60A at 115VAC input or 30A at 230VAC input, cold start, 25°C.

3.0 OUTPUT SPECIFICATIONS

3.1 Load range

output	min. load	rated load	Peak load	voltage accuracy
+24V	0A	10A	12A	23.52V to 24.48V

At factory, output in 60% rated load and normal input conditions, the +24V output is adjusted to between 23.95V and 24.05V. The output voltage could be adjustable from 23.5 ~29VDC. The max. load ~~The~~ could deliver 60 seconds min. The rated load is 240W.

3.2 Ripple and noise

The peak to peak ripple and noise for +5V output is less than 50mV. Measuring is done by 15MHz band width limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load, nominal line.

3.3 Line regulation

The line regulation for +24V is less than + -1% while measuring at rated load and + -10% of input voltage changing.

3.4 Load regulation

The load regulation for +24V is less than + -2%, measuring is done by changing the measured output load from 0% to 100% of rated load, 115/230VAC.

4.0 GENERAL FEATURES

4.1 Efficiency

The efficiency is 85% typical at 115VAC or 90% typical at 230VAC while measuring at rated load.

4.2 Hold up time

The hold up time is longer than 20mS at 115VAC input and rated load, which is measured from the end of the last charging pulse to when the main output drops down to 95% output voltage.

4.3 Protection

4.3.1 Over voltage protection

For some reason the power supply fails to control itself, the build-in over voltage protection circuit will shut down the outputs to prevent damaging external circuits. The trip point is 33~38V.

4.3.2 Short circuit & over load protection

The power supply will go into hiccup mode against short circuit ~~or~~ over load conditions and will auto-recovery while faulty conditions are removed.

and constant current mode against

4.4 Rise time

ca. 5-20ms, depending on load.

4.5 Front panel indicator

Green LED, goes out at $V_{out} < 19.5 \sim 22.5V$.

4.6 MTBF

425,000h at 24VDC/10A, 230VAC input, 40°C according to MIL-HDBK 217F (GB).

5.0 ENVIRONMENT SPECIFICATIONS

5.1 Operating temperature

0°C to 70°C (> 60°C : derating, 6W/K)

5.2 Storage temperature

-40°C to 85°C

5.3 Altitude

Will operate properly at any altitude between 0 to 10000 ft.

6.0 INTERNATIONAL STANDARDS

6.1 Safety standards

Designed to meet the following standards :

UL 1950

UL 508

CSA 22.2 NO.950-M90

EN 60 950

6.2 EMI standards

Designed to meet the following ~~conducted~~ limits :

FCC docket 20780 curve "B" ^{表 12-11}

EN 55022 "B"

EN 61000-3-2 class "D"

EN 50081-1

6.3 EMS standards

EN 50082-2

EN 61000-4-2 6KV contact discharge, 8KV air discharge

EN 61000-4-3 10V/m

EN 61000-4-4 2KV

EN 61000-4-5 4KV

EN 61000-4-6

EN 61000-4-8

EN 61000-4-11