
Specifications Format

1.0 GENERAL INFORMATION

Customer : _____
Application : _____
Potential : _____
Target Price: _____
RoHS : Yes No

2.0 INPUT SPECIFICATIONS

2.1 Input voltage

The range of input voltage is from

- ___ VAC to ___ VAC. (Universal)
 ___ VAC to ___ VAC and ___ VAC to ___ VAC. (Selectable)
 ___ VDC to ___ VDC.

2.2 Input frequency

The range of input frequency is from ___ Hz to ___ Hz.

2.3 Input current

(You don't have to specify it.)

2.4 Inrush current

The inrush current will not exceed ___ A at ___ VAC input or ___ A at ___ VAC input, cold start, 25 °C, with exclusion of EMI suppression capacitors.

2.5 Standby input power

The standby input power is less than ___ watt at ___ load, ___ input voltage.

3.0 OUTPUT SPECIFICATIONS

3.1 Load range

output	min. load	rated load	max. load	peak load	voltage accuracy
___ V	___ A	___ A	___ A	___ A	___ V to ___ V
___ V	___ A	___ A	___ A	___ A	___ V to ___ V
___ V	___ A	___ A	___ A	___ A	___ V to ___ V
___ V	___ A	___ A	___ A	___ A	___ V to ___ V

At factory, all outputs in the condition of ___ % rated load and nominal line, the ___ V output is set to between ___ V and ___ V, the other outputs checked to be within the specified voltage accuracy range. The peak can last for around ___ seconds, continuously draw peak current will reduce life time and MTBF, and will probably shut down the power supply.

3.2 Ripple and noise

The peak to peak ripple and noise for ___ V is less than ___ mV, for ___ V is less than ___ mV, for ___ V is less than ___ mV, for ___ V is less than ___ mV of output voltage at rated load. Measuring is done by 25 MHz band width limited oscilloscope and terminated each output with a 0.47uF capacitor at rated loading and nominal line.

3.3 Line regulation

The line regulation for ___ V is less than \pm ___ %, for ___ V is less than \pm ___ %, for ___ V is less than \pm ___ %, for ___ V is less than \pm ___ %, while measuring at rated loading and $\pm 10\%$ of nominal input voltage changing.

3.4 Load regulation

The load regulation for ___ V is less than \pm ___ %, for ___ V is less than \pm ___ %, for ___ V is less than \pm ___ %, for ___ V is less than \pm ___ % while measuring is done by changing the measured output loading $\pm 40\%$ from 60% rated load, and keep other output at 60% rated load and nominal line.

3.5 Remote sense

The ___ V output has remote sense capability. The compensation of voltage for ___ V output is ___ max.

3.6 Capacitance loading capability

The capacitance loading capability can be up to ___ uF for ___ V output.

4.0 GENERAL FEATURES

4.1 Efficiency

The efficiency is higher than ___ % while measuring at nominal line and rated output.

4.2 Hold up time

The hold up time is longer than ___ mS at ___ VAC 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 avoid damaging the external circuits. The trip point of O.V.P. circuit is around ___ V to ___ V.

4.3.2 Short circuit protection & Over current protection

- The power supply will go into latch-off mode against short circuit or over load condition, and have to OFF and ON the AC input to restart the power supply.

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

4.4 Power good signal

When power is turned on, the power good signal will go high between ___ mS to ___ mS after all output DC voltages are within regulation limits.

- The high level of signal is TTL level (5V).
 CMOS level (___ V).
 open collector (15V max.).

4.5 Power fail signal

The power fail signal will go low at least ___ mS before any of the output voltages fall below the regulation limits.

4.6 Power sharing & Redundancy

- This power has power sharing and redundant capability, the max. parallel number is ____ . Power sharing means that the load can be equally shared by each power supply connected. Redundancy means that when one power supply fail, the other power supplies will take over.

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- ORing diode is inside.
 outside.

5.0 ENVIRONMENT SPECIFICATIONS

5.1 Operating temperature

___ °C to ___ °C

5.2 Storage temperature

___ °C to ___ °C

5.3 Operating humidity

___ % to ___ % non-condensing

5.4 Altitude

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

6.0 INTERNATIONAL STANDARDS

6.1 Safety standards

Designed to meet the following standards :

- Information Technology Equipment
UL60950-1
 UL or C-UL
CSA C22.2 No. 60950.1
 CSA or C-US
EN60950-1
 TUV or other
- Medical Equipment
UL60601-1
 UL or C-UL
CSA C22.2 No. 60601.1
 CSA or C-US
EN60601-1
 TUV or other
- Other _____

6.1.1 Safety rating of input voltage

will be shown on the label :

- 115VAC
 230VAC
 115VAC/230VAC
 100-240VAC
 100-250VAC
 _____ VDC
 other _____

6.1.2 Limitation of leakage current

- _____ mA (ITE) @ _____ VAC input
 _____ μ A (Medical) @ _____ VAC input
 other _____ μ A

6.1.3 Special requirement for the safety

- No
 Yes, _____

6.2 EMI standards

- FCC docket 20780 curve A B
- EN55022 Class A B (Equal to CISPR 22)
- EN55011 Class A B (Equal to CISPR 11)
- VCCI Class I II
(VCCI - The limits are equal to CISPR 22, only the test of 100V is required.
For CISPR 22, only the test of 230V is required)
- EN61000-3-2 (Harmonic) Class A D
- EN61000-3-3

6.3 EMS standards

- EN61000-4-2 ___ KV contact Criterion A B C D
___ KV air discharge
- EN61000-4-3 ___ V/M with 80% AM Criterion A B C D
- EN61000-4-4 ± ___ KV Criterion A B C C

- EN61000-4-5 Line to Line ___ KV Criterion A B C D
Line to Ground ___ KV
- EN61000-4-6 ___ V with 80% AM Criterion A B C D
- EN61000-4-8 ___ A/M Criterion A B C D
- EN61000-4-11 95% dips 10 ms Criterion A B C D
30% dips 500 ms
60% dips 100 ms
95% dips 5000 ms

6.4 CE marking

- Yes Application: Residential Commercial
 Lighting Industry Heavy Industry
- No

7.0 MECHANICAL SPECIFICATION

7.1 Dimensions

Dimensions shown in mm (inch) as above. Tolerance specified is + -0.4 mm.

7.2 Connector

Input : _____

Output : _____

7.3 DC output pin assignment

8.0 DESIGN NOTE