

OEM Power Module



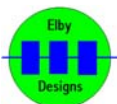
Features

- IT & Medical Safety Approvals
- <0.3W No Load Input Power
- 45W Convection Cooled Ratings
- Class I & Class II Installations
- -20 °C to+70°C Operation

Specifications

Input

Input Voltage	80-264VAC (120-370VDC), derate linearly from 100% at 90VAC to 80% at 80VAC Input
Frequency	47-400Hz
Input Current	0.75A typical at 115VAC, full load, 0.45A, typical at 230VAC, full load
Inrush Current	40A max at 230VAC, cold start 25°C
Power Factor	EN61000-3-2, class A
No Load Input Power	<0.5W
Earth Leakage Current	260µA at 264VAC/60Hz max, 80/160µA typical 115/230VAC
Input Protection	T3.15A/250V internal fuse in line and neutral



Elby Designs - Laurie Biddulph

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Output

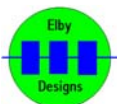
Output Voltage	+15V/-15V
Output Voltage Trim	±10%
Initial Set Accuracy	±1%
Minimum Load	No minimum load required
Maximum Current	3.0A per rail at 15V
Start Up Delay	1s typical
Start Up Rise Time	50ms
Hold Up Time	16ms min at 115VAC
Drift	±0.2% after 20 min warm up
Line Regulation	±0.5% max
Load Regulation	±1%
Over/Undershoot	5% typical
Transient Response	4% max. deviation, recovery to within 1% in 500µs for a 50-75-50% load change
Ripple & Noise	1% pk-pk V1, 20MHz bandwidth
Overvoltage Protection	115-140%V nom, recycle input to reset
Overload Protection	110-160%
Short Circuit Protection	Continuous trip and restart (hiccup mode)
Temperature Coefficient	0.05%/°C

General

Efficiency	Up to 90%
Isolation	4000VAC Input to Output, 1500V AC Input to Ground, 500VDC Output to Ground
Switching Frequency	65KHz typical
Power Density	Up to 7.9W/in
MTBF	1072kHrs to MIL-HDBK-217F at 25°C, GB

Environmental

Operating Temperature	-20°C to +70°C derate linearly from +50°C at 2.5%/°C to 50% load at +70°C.
Cooling	Convection, see thermal considerations
Operating Humidity	95%RH, non-condensing
Storage Temperature	-40°C to +85°C
Operating Altitude	3000m
Shock	30gpk, half sine, 6 axes
Vibration	2grms, 5Hz to 500kHz, 3 axes



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EMC & Safety

Low Voltage PSU EMC	EN61204-3, high severity level
Emissions	EN55011/22 level B conducted. EN55011/22 Level B radiated
Harmonic Currents	EN61000-3-2, class A
Voltage Flicker	EN61000-3-3
Radiated Immunity	EN61000-4-3, level 3 Perf Criteria A
EFT/Burst	EN61000-4-4, level 3 Perf Criteria A
Surge	EN61000-4-5, installation class 3 Perf Criteria A
Conducted Immunity	EN61000-4-6, level 3 Perf Criteria A

Packaging

The unit is in an enclosed aluminium housing with an integral IEC mains inlet mounted at one end of the unit. DC Outputs are via four 4-pin power connectors mounted at the opposite end of the unit.

The unit measures 168mm x 130mm x 62mm

Four mounting points are provided on the underside of the unit allowing it to be secured to the inside of a cabinet etc.

