



Transformer

2.5 AMP TRANSFORMER

SPECIFICATIONS

OUTPUT

Output voltage	24V DC nominal (min 22.8V DC – max 25.2V DC)
Max load current	2.5A (max)
Max output power	41.6W
Ripple & noise*	240mV p-p
Output overshoot/undershoot**	±5%
Turn-on delay	5 seconds (max)
Hold-up time	10mS (min) @ 230Vac/50Hz
Dynamic response	The power supply shall maintain output transient response time within 10ms with a loading current change from 20% to 80% of maximum current and 0.5A/μs rise up or drop down tested at output terminals.

* At 240V AC, maximum load

** At full load, 25°C, cold start. There shall not be any damage and input fuse shall not blow

INPUT

	MINIMUM	RATED	MAXIMUM
Input voltage	90V AC	100 - 240V AC	264V AC
Input frequency	47Hz	50/60Hz	63Hz
Max input current			1500mA

PROTECTION

Over-current protection	>3A and ≤5A with auto recovery function
Over-voltage protection	25.2V maximum
Short-circuit protection	The adaptor shall not be damaged by short the DC output to ground.
Open-circuit protection	When primary power is applied with no load on any output level, no components damaged or hazardous conditions should be occurred.

SAFETY

Compliance standard	AS/NZS60950
Insulation resistance	>10MΩ @ 500V DC
Dielectric withstanding voltage test (Hi-pot test) Primary to secondary	1500V AC 10mA for 1 minute

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ENVIRONMENTAL

Temperature	0°C to +40°C
Relative humidity	10 ~ 90% RH non condensing
Altitude	Sea level to 2000 m
Vibration & shock	1.0 mm, 10 – 55Hz 15 mins per cycle for each axis (X, Y, Z)

STORAGE

-30°C to +70°C
10 ~ 90% RH non condensing
Sea level to 2000 m
The power supply shall be designed to withstand normal transportation vibration per MILSTD_810D, method 514 and procedures X, as it is mounted in the chassis assembly and packed for shipping.

Cooling	Natural convection
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ENERGY EFFICIENCY

No load power consumption (230V AC 50Hz)	0.5W max
Average active mode efficiency”	85.00% @ 230Vac/50Hz
Internationale e efficiency level	IV
MEPS compliance	AS/NZS 4665.1 + .2

MECHANICAL

Dimensions	124.5 L x 51.0 W x 34.0 H mm
Input plug type	Desk type, IEC60320 (C14) 3 blade receptacle
Output cord	18AWG/2C SPT-1, 1828 mm
Output plug	DC plug 11 x 5.5 x 2.5 mm
Drop test	With half cycle input voltage drop-out, the unit shall operate within the prescribed voltages with drop-out pulse repetition rate of 500mS. Conditions: Full load and nominal input AC voltage limits: meet the regulation requirement.

RELIABILITY

Mean time between failure	The power supply shall be designed and prediction to have a mean time between failures (MTBF) of 5000 operating hours minimum and conditions: 25°C, MTBF MIL-HDBK-217F.
Burn-in test	The power supply shall withstand a minimum of 4 hours burn-in testing under full load at 35°C ~ 40°C ±5°C room temperature.

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Power Cable

As used on most computers and office equipment. Fitted with IEC-C13 connector and Australian 3 pin mains plug with insulated pins compliant with AS/NZS3112.

SPECIFICATIONS

MAINS PLUG 3 PIN

Standard

Type

Colour

Length

AS/NZS 3112:2004

3 pin Australian mains plug

Black

0.5 m



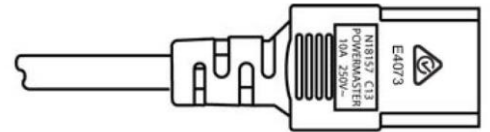
IEC-C13 CONNECTOR

Standard

Colour

AS/NZS60320.2.2.2004

Black



FLEX JACKET

Type

Standard

Rating

Material

Diameter

GD-3

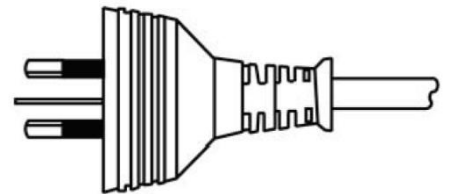
AS/NZS3191:2003

Powermaster GD-3

3 x 0.75 mm² 75°C

PVC (Black)

6.60 mm



FLEX CONDUCTORS

Conductors

Sheath

For lengths shorter than 2 m – 3 x 0.75 mm²

For lengths longer than 2 m – 3 x 1.00 mm²

PVC

Brown (L)

Blue (N)

Yellow/Green (E)

