

## In-line Switch Mode Power Supply Unit

T2425-025 - 60J Series



### FEATURES

- In-line light weight compact Switch Mode Power Supply Units with a wide 96V-264V AC input voltage range to suit travel product applications.
- Standard IEC-C14 inlet allows the correct IEC-C13 power cord to be selected for different countries.
- Electrical Safety Authority Approved.
- Other voltages and choice of output plug can be custom made upon request.

### OUTPUT

<b>Output Voltage</b>	24V DC Nominal (Min 22.8V DC – Max 25.2V DC)
<b>Maximum Load Current</b>	2.5A (Max)
<b>Maximum Output Power</b>	41.6W
<b>Ripple and Noise*</b>	240mV p-p
<b>Output overshoot/undershoot**</b>	+/- 5%
<b>Turn-on Delay</b>	5 Seconds (Max)
<b>Hold-up Time ***</b>	10mS (Min) at 230Vac/50Hz
<b>Dynamic Response</b>	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 the input fuse shall not blow.

### INPUT

	MINIMUM	RATED	MAXIMUM
Input Voltage	90V AC	100 – 240V AC	264V AC
Input Frequency	47 Hz	50 / 60 Hz	63 Hz
Maximum Input Current*			1500mA

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### PROTECTION

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

### ENVIRONMENTAL

	OPERATING	STORAGE
<b>Temperature</b>	0°C to +40°C	-30°C to +70°C
<b>Relative Humidity</b>	10 ~ 90 % RH. Non-condensing	10 ~ 90 % RH. Non-condensing
<b>Altitude</b>	Sea Level to 2,000 m	Sea Level to 2,000 m
<b>Vibration and Shock</b>	1.0mm, 10-55Hz, 15 minutes per cycle for each axis (X, Y, Z)	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.
<b>Cooling</b>	Natural convection	

### ENERGY EFFICIENCY

<b>No Load Power Consumption (230V AC 50Hz)</b>	0.5W max
<b>Average active mode efficiency *</b>	85.00% at 230Vac/50Hz
<b>International e Efficiency Level</b>	IV
<b>MEPS Compliance</b>	AS/NZS 4665.1 + .2

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### MECHANICAL

<b>Dimensions</b>	124.5(L) × 51.0(W) × 34.00(H)mm
<b>Input Plug Type</b>	Desk-type, IEC60320 (C14) 3 Blade Receptacle
<b>Output Cord</b>	18AWG/2C SPT-1, 1828mm
<b>Output Plug</b>	DC PLUG 11 x 5.5 x 2.5 mm
<b>Drop Test</b>	With half cycle input voltage drop-out, the unit shall operate within the prescribed voltages with a drop-out pulse repetition rate of 500mS. Conditions: Full load and nominal input AC voltage Limits: Meet the regulation requirement

### RELIABILITY

<b>Mean Time Between failure (MTBF)</b>	The power supply shall be designed and Prediction to have a mean time between failures (MTBF) of 50000 operating hours minimum and conditions: 25°C, MTBF MIL-HDBK-217F
<b>Burn-in Test</b>	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. After the test, the product shall operate normally.

### SAFETY

<b>Compliance Standard</b>	AS/NZS60950
<b>Insulation Resistance</b>	>10MΩ at 500V DC.
<b>Dielectric withstanding voltage test (Hi-pot test) Primary to Secondary</b>	1500VAC 10mA for 1 minute
<b>Leakage Current</b>	3.5mA at nominal AC input voltage and frequency for class 1

### HAZARDOUS SUBSTANCES

All components and materials used shall be in compliance with:

- EU Directive 2002/95/EC "RoHS"
- EU Directive "REACH"

### EMC COMPLIANCE

<b>Compliance Standard</b>	AS/NZS CISPR22
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