



Table Top Power Supply PST24050

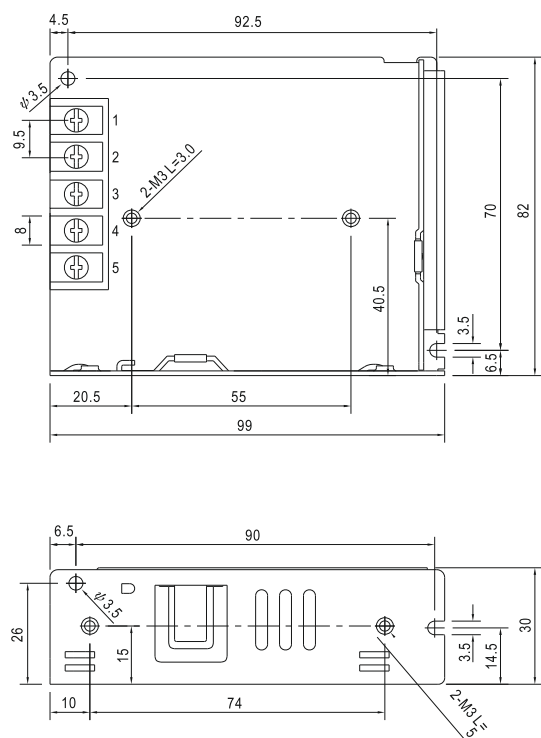
Applications

- Textile
- Packaging
- Security system
- All industrial machines

Features

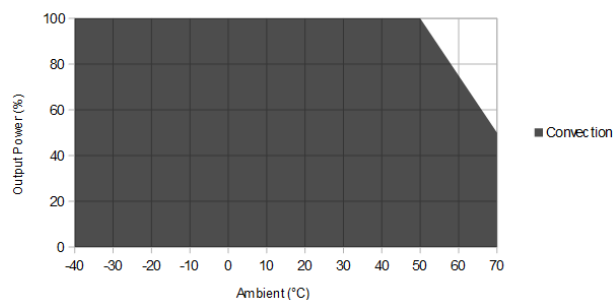
- Supports 90-264V AC / 127-373V DC
- Efficiency up to 86 %
- - 40 °C to + 70 °C operating temperature
- Compact size and 1U low profile
- Protection against Short circuit, Overload & Overvoltage
- Cooling by free air convection

Dimensions (All are in mm)



De-rating curve

Power De-rating w. r. t. Ambient Temperature



Technical specifications

Output specifications

Nominal DC voltage	24V
Rated current	2.2A
Rated power	52.8W
Ripple & Noise (max)	<1% of vout
Voltage Adj. range	24V to 28V
Voltage tolerance	±1%
Line regulation	±1%
Load regulation	±1%
Turn on time	<3 sec; at full load
Hold up time	≥60 ms at 230V AC & ≥10 ms at 115V AC, Full load
Rise time	<100 ms

Input specifications

Voltage range	90-264V AC / 127-373V DC
Frequency range	47-63 Hz
Efficiency @ 230V AC	Up to 86%
AC current	0.9A @115V AC; 0.50A @230V AC
Inrush current	<45 Amps; Measured at 230V AC, 25 °C Ambient, Cold start
Leakage current	<1mA; 240V AC input
No load power consumption	<0.5W; 115V AC input

Protection specifications

Overload	>110% of rated output current; Hiccup mode; Autorecovery type
Over voltage	28.5-33.5V DC Latched type; Input AC power to be recycle to recover the power supply
Output short circuit	Hiccup mode when output is shorted; Autorecovery type

Environment specifications

Operating temp	- 40 °C to +70 °C; De-rate linearly above 50 °C from 100% load at 50 °C to 50% load at 70 °C, - 40 °C to 0 °C startup is guaranteed with spec deviation (output ripple can be more than 10% of the output voltage.)
Storage temp	-40 °C to +85 °C
Cooling	Natural convection
Humidity	5 to 95% RH, Non condensing
Altitude	2000m
Vibration	Component : 10~500Hz, 2G 10 min. / 1 cycle, Period for 60 min. each along X, Y, Z axes

SAFETY & EMC specifications

Dielectric with stand voltage	I/P to earth: 2500V AC, I/P to O/P: 4000V AC, O/P to earth: 1500V AC
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Mechanical

Dimension (L x W x H)	99 x 82 x 30mm
Weight	<230 gm
Mounting	Table top

Connectors details

Ref Des	Pin number	Function
TRL1	1	AC Line
	2	AC Neutral
	3	Earth
	4	V1 Negative
	5	V1 Positive

Compliance

Applicable EMI / EMC Standards		
Category	Reference standards	Testing level
Conducted emission	CISPR32	CLASS B
Radiated emission	CISPR32	CLASS A
Electrostatic discharge	IEC 61000-4-2	Level 4, Criteria A Level 3, Criteria A
Radiated susceptibility	IEC 61000-4-3	Level 3, Criteria B
Electrical fast transient / Burst	IEC 61000-4-4	Level 3, Criteria A
Surge	IEC 61000-4-5	Level 3, Criteria A
Conducted susceptibility	IEC 61000-4-6	Level 3, Criteria B
Power frequency magnetic field	IEC 61000-4-8	Level 4, Criteria A
Voltage dips & interruption	IEC 61000-4-11	Criteria A & B
Safety	Designed to meet IEC 62368-1	

Ordering information

Product code	Description
PST24050	52.8W, 24V / 2.2A Table top power supply in metal body