

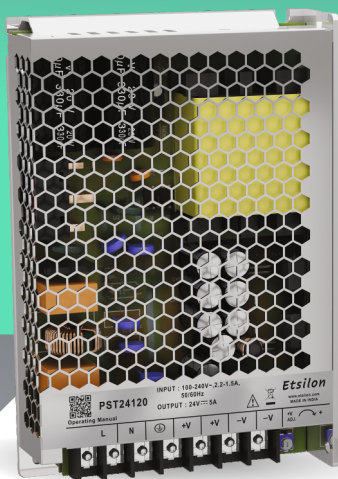


Table Top Power Supply PST24120

Applications

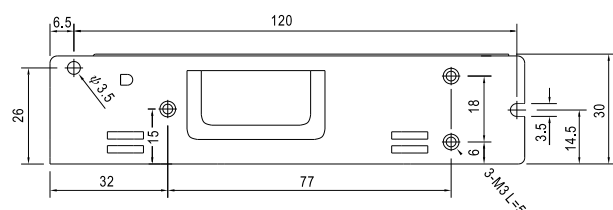
- Textile
- Packaging
- Security system
- All industrial machines

Features

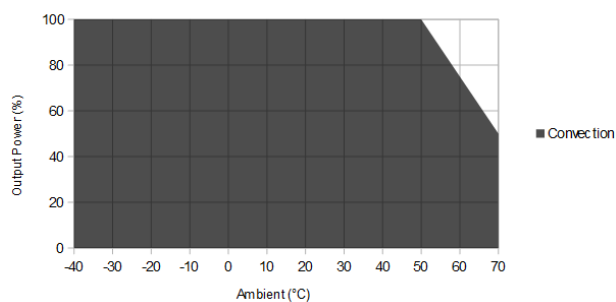
- Supports 90-264V AC / 127-373V DC
- Efficiency up to 89%
- -40 °C to +70 °C operating temperature
- Compact size and 1U low profile
- Protection against Short circuit, Overload & Overvoltage
- Cooling by free air convection

Technical drawing of the SVR1 LED display module. The drawing shows the front view of the module with the following dimensions and components:

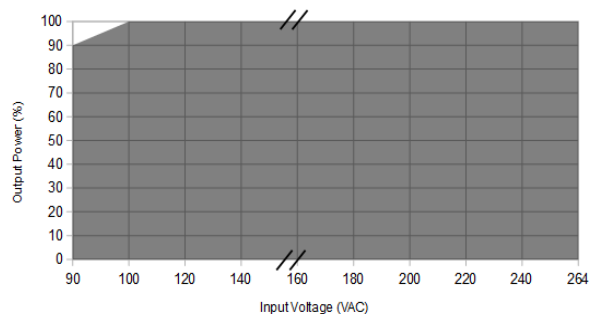
- Overall width: 122.5
- Overall height: 97
- Top mounting hole diameter: $\phi 3.5$
- LED array height: 8.5
- LED array width: 78
- LED array pitch: 9.5
- LED array components: 1, 2, 3, 4, 5, 6, 7
- LED array label: SVR1
- LED array type: OLED
- Mounting hole diameter: $2-M3 \pm 0.0$
- Mounting hole spacing: 33
- Mounting hole offset: 34
- Mounting hole diameter: $\phi 3.5$
- Mounting hole offset: 6.5
- Mounting hole offset: 3.5



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



Power De-rating w. r. t. Input Voltage



Output specifications

Nominal DC voltage	24V
Rated current	5A
Rated power	120W
Ripple & Noise (max)	<1% of vout
Voltage Adj. range	24V to 28V
Voltage tolerance	±1%
Line regulation	±1%
Load regulation	±1%
Turn on time	<1 sec @230V AC & <3 sec @115V AC, Full load
Hold up time	≥60ms at 230V AC & ≥10ms @115V AC, Full load
Rise time	<100ms

Voltage range	90-264V AC / 127-373V DC
Frequency range	47-63 Hz
Efficiency @ 230V AC	Up to 89%
AC current	2.2A @115V AC; 1.5A @230V AC
Inrush current	<60 Amps; Measured at 264V AC, 25 °C Ambient, Cold start
Leakage current	<1mA; 264V AC input
No load power consumption	<0.5W; 115V AC input

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

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

Dielectric with stand voltage	I/P to earth: 2500V AC, I/P to O/P: 1500V AC, O/P to earth: 1500V AC
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Dimension (L x W x H)	129 x 97 x 30mm
Weight	<340 gm
Mounting	Table top

Connectors details

Ref Des	Pin number	Function
TRL1	1	AC Line
	2	AC Neutral
	3	Earth
	4,5	V1 Positive
	6, 7	V1 Negative

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
PST24120	120W, 24V / 5A Table top power supply in metal body