



SWITCH MODE POWER SUPPLY

PS48-5A

APPLICATIONS

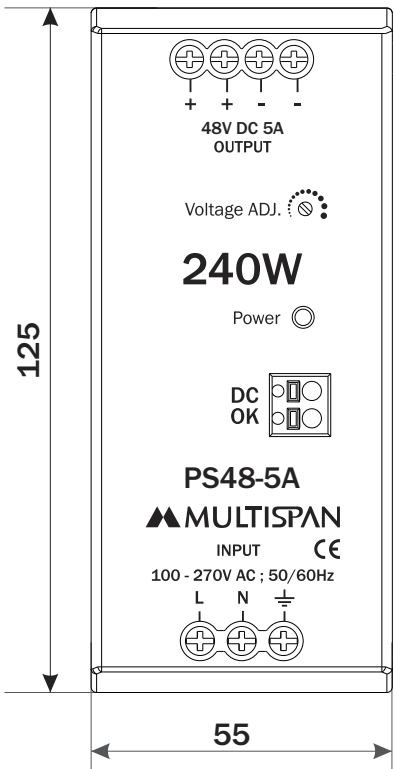
Robotics

Automation Panel

Elevators

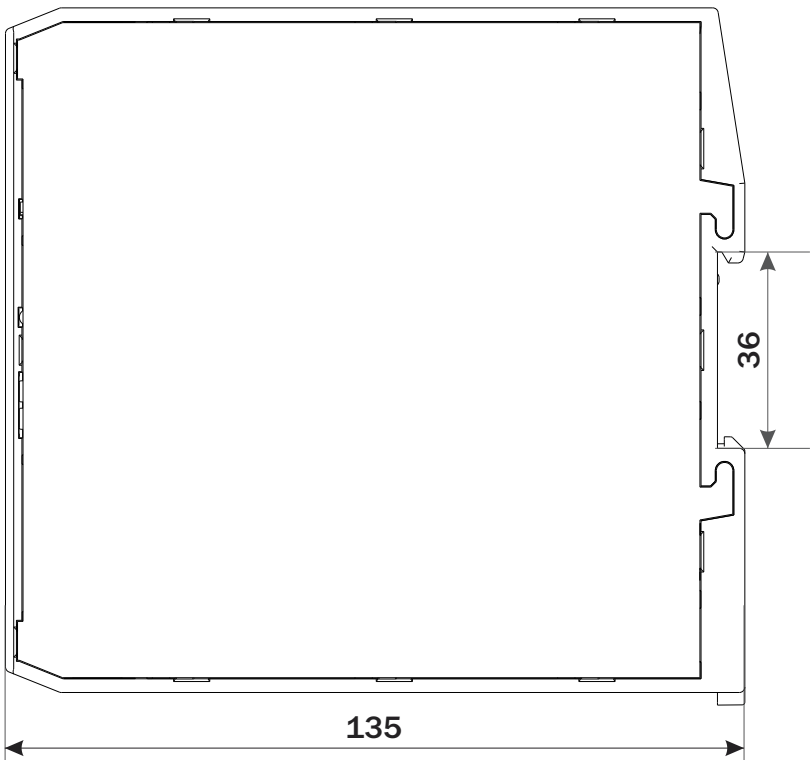
Special Purpose Machine

Mechanical Dimensions



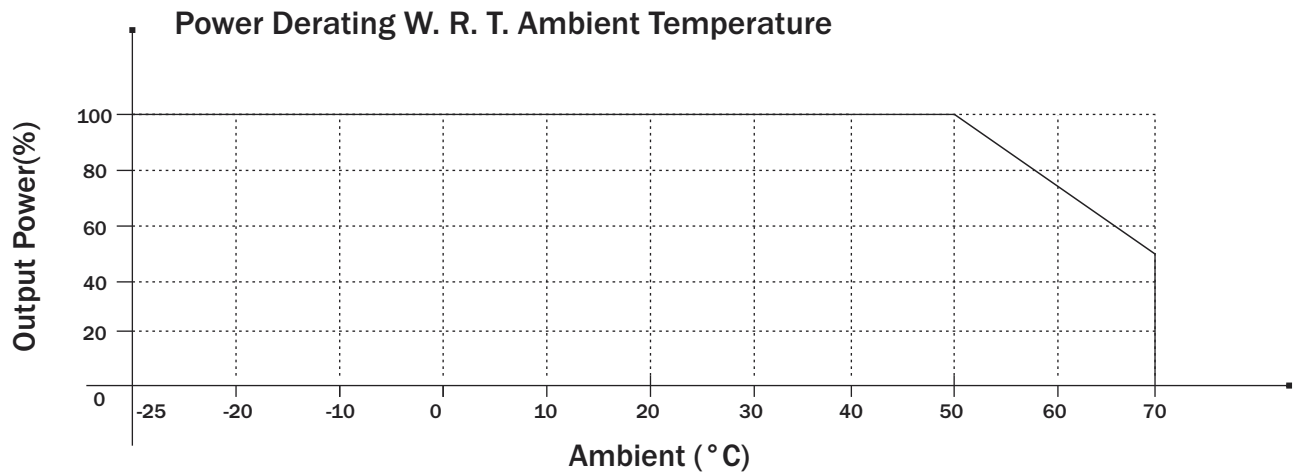
FRONT VIEW

All dimensions are in mm



RIGHT SIDE VIEW

Derating Curve



Features

- 240W rated power
- Compact Size
- LED Indicate For Power ON
- Din Rail Mount
- Cooling by free air convection

Protection Available

- Overload, Over voltage, Output short circuit, Over Temperature

Input Specification

Supply Voltage	100 to 270V AC (L-N) 100 to 370V DC
Frequency Range	50/60 Hz
Power Factor	>0.95 @ Full Load
AC Current (TYP.)	2.4A@100V AC 1.2A@230V AC
Efficiency (TYP.)	>93%@230VAC
Start UP time	<2 sec@230VAC (Full Load)

Output Specification

Nominal DC Voltage	48V DC
Output Voltage	48-56V DC
Output Current	5A at 48V; 4.29A at 56V
Ripple & noise	<1% of V out
Line Regulation	±0.5%
Load Regulation	±1%
Hold UP Time	>13ms at 48 V @ 100/230V AC (Full Load)

LED Indication

LED 1	Power On
-------	----------

DC OK Contact

Contact Rating : 30V DC 1A ; 60V DC 0.5A ; 125V AC 0.5A ; resistive load , min. current 1 mA

Protection

Input Fused	4A -250V AC Internal
Output Over Load	110% to 140% of rated Output Current protection Protection Type :Hiccup mode;recover automatically after fault condition is removed
Output Short Circuit	Hiccup mode when output is shorted; Recovers automatically after fault condition is removed.
Output Over Voltage	SMPS Latches off if output voltage 31V DC ± 0.5V DC
Over Temperature	Power supply shuts down when the temperature goes above specified limit; Turns on automatically after temperature goes back to Normal operating conditions.
Isolation between Input and Output :	2.5 KV

Environmental

Working Temperature	-25 °C to 70 °C * Refer Derating Curve
Storage Temperature	-40 °C to 85 °C
Relative Humidity	95% RH Non-condensing

Mechanical Characteristics

Mounting Type	DIN Rail Mount
Dimension (HxWxD) mm	125 x 55 x 135
Material	Body Polycarbonate (PC)
Terminal Screw Size	M3
Screw Torque (N.m)	0.5
Wire Gauge (AWG)	28-12
Weight (Approx) gms	Unpacked : 625 Packed : 676