RPS240-24-1D | INDUSTRIAL POWER SUPPLY



Features :

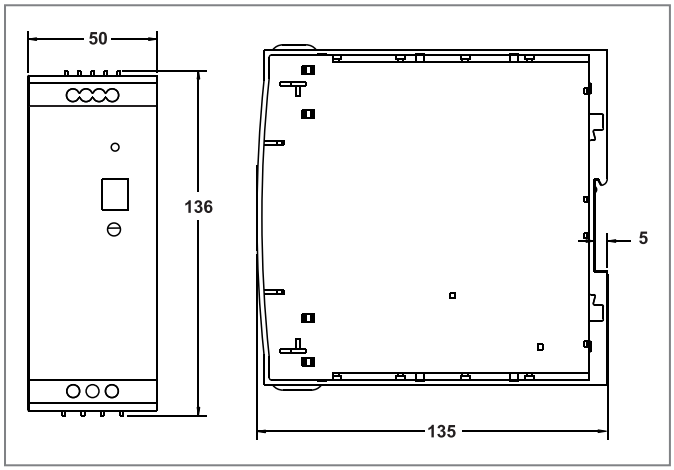
- Supports 90 - 305 VDC
- Efficiency up to 93 %
- Protection against short circuit, overload, overvoltage & over temperature
- Cooling by free air convection

Certification : RoHS compliant

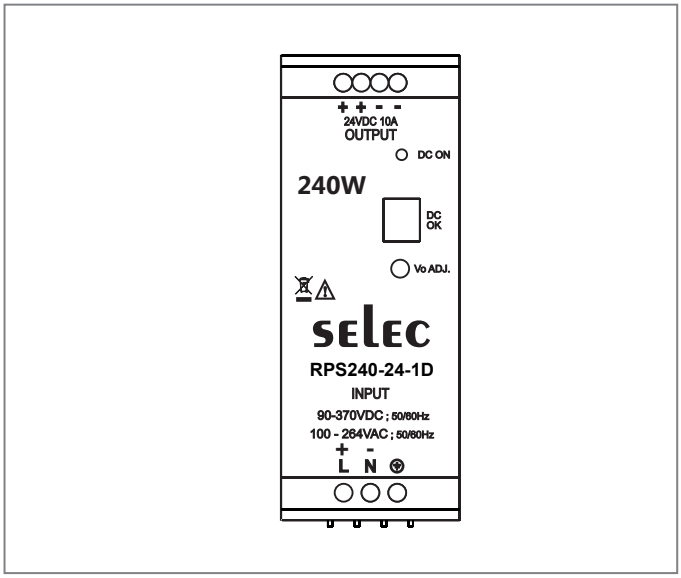
SPECIFICATIONS:

MODEL		RPS240-24-1D
OUTPUT	NOMINAL DC VOLTAGE	24 V
	RATED CURRENT	10 A
	CURRENT RANGE	0 - 10 A
	RATED POWER	240 W
	RIPPLE & NOISE (max)	< 1 % of Vout
	VOLTAGE ADJ. RANGE	24 to 28 V
	VOLTAGE TOLERANCE	± 1 %
	LINE REGULATION	± 1 %
	LOAD REGULATION	± 1 %
	TURN ON TIME	< 2 sec; at full load
	HOLD UP TIME	> 25 mS at 24 V & > 16 mS at 28 V @ 100 / 305 VDC, Full Load
	RISE TIME	< 100 ms
INPUT	VOLTAGE RANGE *	90 - 305 VDC De-rate output power linearly below 100 VDC from 100 % at 100 VDC to 90 % at 90 VDC
	EFFICIENCY	Up to 93 %
	I/P CURRENT	2.7A @ 100 VDC; 0.9 A @ 305 VDC
	INRUSH CURRENT	< 25 Amps ± 20 % ; Measured at 110 VDC, 25°C Ambient, Cold start
PROTECTION	OVERLOAD	110 % to 140 % of rated output current; Hiccup type; Autorecovery
	OVERVOLTAGE	31 VDC ± 0.5 VDC Latched type; Input power to be recycled to recover the power supply
	OUTPUT SHORT CIRCUIT	Hiccup mode when output is shorted; Autorecovery type.
	OVER TEMPERATURE	The power supply shuts down when the temperature of PCB below PFC choke reaches typically 120°C. It recovers automatically when temperature falls to typically 90°C
FUNCTION	DC OK SIGNAL	Contact closes @ 23.0 V (typ.) Contact opens @ 22.5 V (typ.)
		Contact Rating: 30 VDC 1 A; 60 VDC 0.5 A; 125 VAC 0.5 A; resistive load, min. current 1 mA
ENVIRONMENT	OPERATING TEMP	- 25°C to + 70°C; De-rate linearly above 50°C from 100 % load at 50°C to 50 % load at 70°C, - 25°C to 0°C startup is guaranteed with specification deviation (Output ripple can be more than 10 % of the output voltage.)
	STORAGE TEMP	- 40°C to + 85°C
	COOLING	Natural convection cooled
	HUMIDITY	5 to 95 % RH, Non condensing
	ALTITUDE	2000m
	VIBRATION	Component: 10 ~ 500 Hz, 2 G 10 min. / 1 cycle, period for 60 min. each along X, Y, Z axes
SAFETY & EMC	DIELECTRIC WITHSTAND VOLTAGE	I/P to O/P: 4000 VAC O/P to DC-OK: 500 VAC
OTHERS	DIMENSION	50 x 136 x 135 mm (W x H x D)
	WEIGHT	645 gms
	MOUNTING	35 mm DIN rail

Dimensions (All are in mm)



Terminal connections



Derating curves

