RPS40-24-1D | INDUSTRIAL POWER SUPPLY



Features :

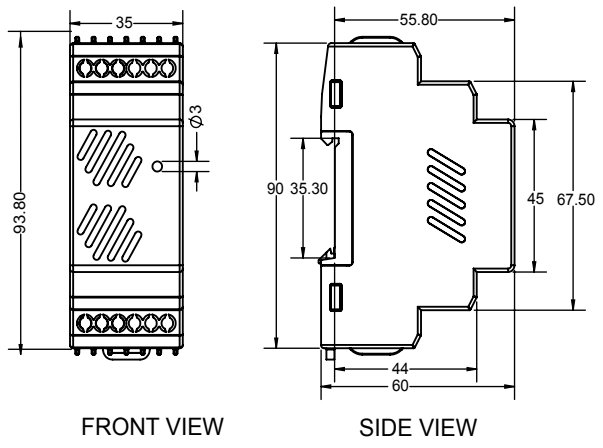
- Efficiency up to 85 %
- Full power between -25°C to +50°C
- Protection against short circuit, overload
- Cooling by free air convection

Certification :

SPECIFICATIONS:

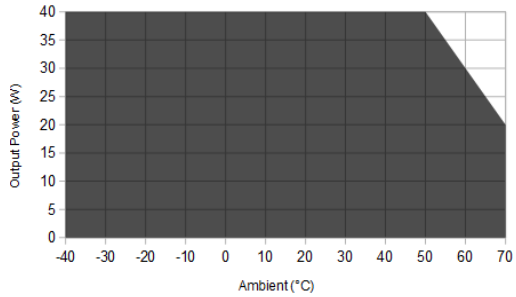
MODEL		RPS40-24-1D
OUTPUT	NOMINAL DC VOLTAGE	24 V
	RATED CURRENT	1.67 A
	RATED POWER	40 W
	RIPPLE & NOISE (max)	< 1 % of Vout
	VOLTAGE TOLERANCE	± 3 %
	LINE REGULATION	± 1 %
	LOAD REGULATION	± 1 %
	TURN ON TIME	< 1 sec @ 305 VDC & < 3 sec @ 120 VDC, Full load
	HOLD UP TIME	≥ 25 ms @ 305 VDC &≥ 6 ms @ 120 VDC, Full load
	RISE TIME	< 100 msec
INPUT	VOLTAGE RANGE	77 - 305 VDC Derate Output Power Linearly below 120 VDC From 100 % at 120 VDC to 80 % at 77 VDC
	EFFICIENCY	Up to 85 %
	I/P CURRENT	0.60 A @ 120 VDC; 0.3 A @ 305 VDC
	INRUSH CURRENT	< 25 Amps; Measured at 110 VDC, 25°C Ambient, Cold start
PROTECTION	OVERLOAD	> 110 % of rated output current; Hiccup mode; Autorecovery type.
	OVERVOLTAGE	31.5 VDC ± 1 VDC
		Hiccup mode when output over voltage occur; Autorecovery type.
	OUTPUT SHORT CIRCUIT	Hiccup mode when output is shorted; Autorecovery type.
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	2000 m
	VIBRATION	Component: 10 ~ 500 Hz, 2 G 10 min. / 1 cycle, period for 60 min. each along X, Y, Z axes
DIELECTRIC WITHSTAND	TEST VOLTAGE	O/P to Earth : 1500 VAC
MECHANICAL	DIMENSION	35 mm x 90 mm x 60 mm (W x H x D)
	WEIGHT	150 gms
	MOUNTING	35 mm Din Rail

Mechanical dimensions

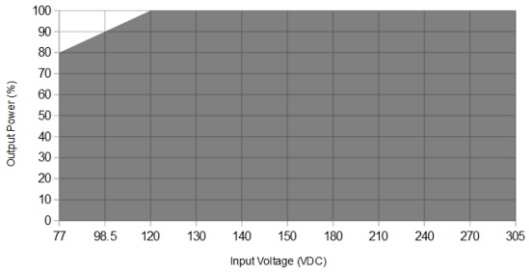


*All dimensions are in mm

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



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



Terminal Connection

