RPS15 | INDUSTRIAL POWER SUPPLIES



Features :

- Plastic case, Ultra slim
- Support wide range of AC/DC auxiliary supply
- Efficiencies up to 82%
- Full power between -25°C to +50°C
- Protection against short circuit, overload
- Cooling by free air convection

Model Number Legend:
RPS15 - □□ - CE
1. Output Voltage: 05 : 5 V
12 : 12 V
24 : 24 V

Certification : CE RoHS

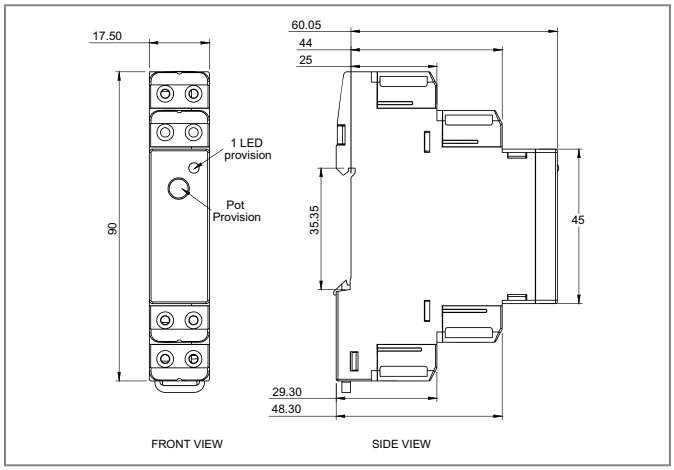
SPECIFICATIONS:

MODEL		RPS15-05-CE	RPS15-12-CE	RPS15-24-CE
OUTPUT	NOMINAL DC VOLTAGE	5 V	12 V	24 V
	RATED CURRENT	2.4 A	1.25 A	0.63 A
	CURRENT RANGE	0 – 2.4 A	0 – 1.25 A	0 – 0.63 A
	RATED POWER	12 W	15 W	15 W
	RIPPLE & NOISE (max)	< 1.5 % of Vout	< 1 % of Vout	< 1 % of Vout
	VOLTAGE ADJ. RANGE	4.5 to 5.5 V	12 to 14 V	24 to 28 V
	VOLTAGE TOLERANCE	± 1 %		
	LINE REGULATION	± 1 %		
	LOAD REGULATION	± 1 %		
	TURN ON TIME	< 1 sec, full load		
	HOLD UP TIME	30 ms @ 230 VAC & 10 ms @ 115 VAC, full load		
	RISE TIME	< 100 ms		
INPUT	VOLTAGE RANGE	90 - 264 VAC / 127 - 370 VDC		
	FREQUENCY RANGE	50 / 60 Hz		
	EFFICIENCY @ 230V AC	Up to 76%	Up to 80%	Up to 82%
	AC CURRENT	0.3 A @ 115 VAC; 0.15 A @ 230 VAC		
	INRUSH CURRENT	< 30 Amps; Measured at 264 VAC, 25°C Ambient, Cold start		
PROTECTION	OVERLOAD	110 % to 150 % of rated output current; Hiccup type, Autorecovery		
	OUTPUT SHORT CIRCUIT	Hiccup mode when output is shorted; Autorecovery type.		
ENVIRONMENT	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. Note : Only start up guaranteed at - 40°C with spec deterioration.		
	STORAGE TEMP	- 40°C to + 85°C		
	COOLING	Natural Cooling		
	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		
SAFETY & EMC	SAFETY STANDARDS	Designed to meet IEC 62368-1		
	DIELECTRIC WITHSTAND VOLTAGE	I/P to O/P : 4000 VAC		
	CONDUCTED EMISSION	CISPR32 ; Class B		
	RADIATED EMISSION	CISPR32 ; Class A		
RELIABILITY	MTBF	> 640 K hrs. as per MIL-HDBK-217F (25°C)		
MECHANICAL	DIMENSION	17.5 mm x 90 mm x 65 mm (W x H x D)		
	WEIGHT	< 100 gms		
	MOUNTING	35 mm DIN Rail		

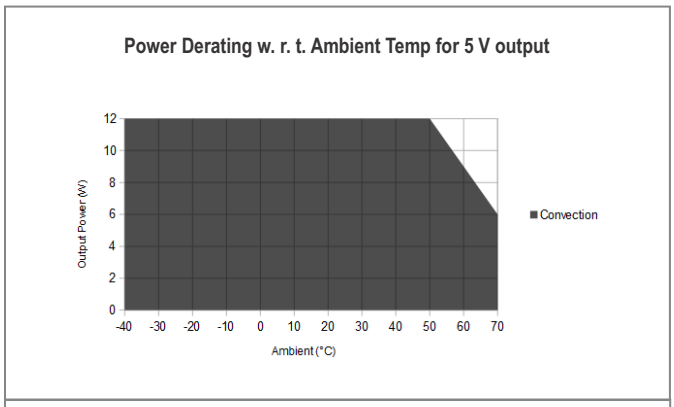
Connectors details

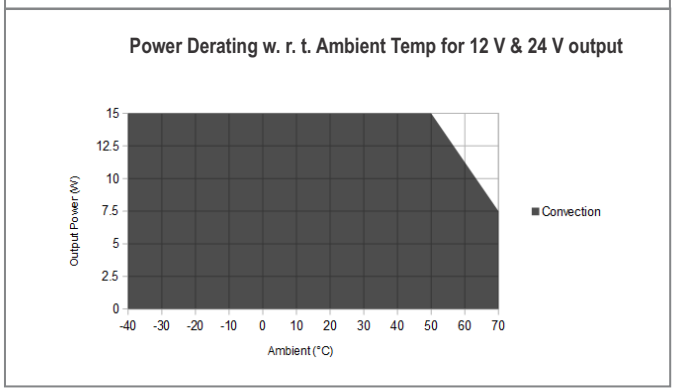
Description	Type	Torque
Input connector	Screw Type	0.5 Nm
Output connector		

Mechanical Dimensions (All are in mm)

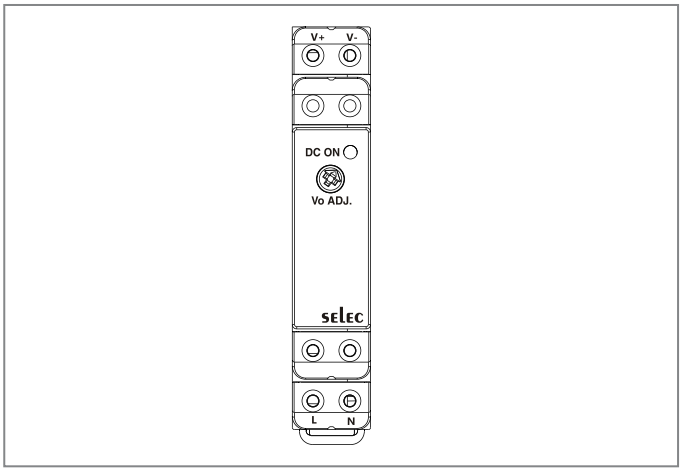


Derating curve





Terminal connections



Compliance

Applicable EMI / EMC Standards		
Product Standard		
Category	**Reference Standards**	**Testing Level**
Conducted Emission	CISPR32	CLASS B
Radiated Emission	CISPR32	CLASS A
Electrostatic Discharge	IEC61000-4-2	Level 4, Criteria A Level 3, Criteria A
Radiated Susceptibility	IEC61000-4-3	Level 3, Criteria B
Electrical Fast Transient / Burst	IEC61000-4-4	Level 3, Criteria A
Surge	IEC61000-4-5	Level 3, Criteria A
Conducted Susceptibility	IEC61000-4-6	Level 3, Criteria B
Power Frequency Magnetic Field	IEC61000-4-8	Level 4, Criteria A
Voltage Dips & Interruption	IEC61000-4-11	Criteria A & B
Safety	Designed to meet IEC62368-1	

Ordering information

Product Code	Description	Certification
RPS15-05-CE	12 W, 05 V / 2.4 A DIN rail mounted Power Supply in Plastic Housing	CE RoHS
RPS15-12-CE	15 W, 12 V / 1.25 A DIN rail mounted Power Supply in Plastic Housing	CE RoHS
RPS15-24-CE	15 W, 24 V / 0.63 A DIN rail mounted Power Supply in Plastic Housing	CE RoHS