



Features :

- Supports 90 - 264 VAC / 127 - 370 VDC
- Efficiencies up to 87 %
- Protection against short circuit, overload, overvoltage & over temperature
- Cooling by free air convection
- UL 508 approved (E522848)

Model Number Legend:

RPS60 - - CU

1. Output Voltage: 05: 5 V
12: 12 V
24: 24 V
48: 48 V

Certification :

SPECIFICATIONS:

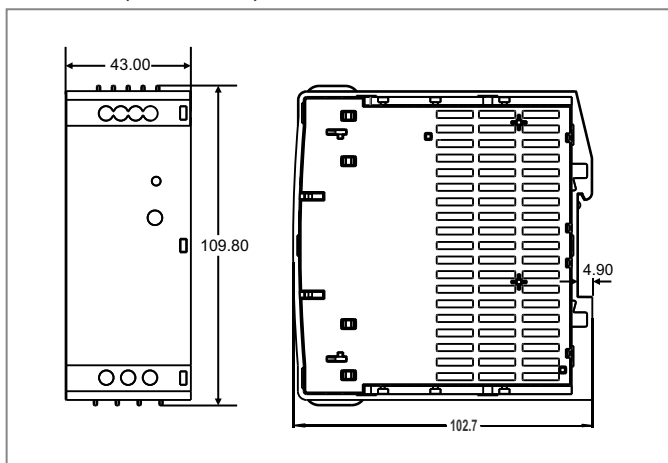
		RPS60-05-CU	RPS60-12-CU	RPS60-24-CU	RPS60-48-CU
OUTPUT	NOMINAL DC VOLTAGE	5 V	12 V	24 V	48 V
	RATED CURRENT	10 A	5 A	2.5 A	1.25 A
	CURRENT RANGE	0 - 10 A	0 - 5 A	0 - 2.5 A	0 - 1.25 A
	RATED POWER	50 W	60 W	60 W	60 W
	RIPPLE & NOISE (max)	< 1.5 % of Vout	< 1 % of Vout	< 1 % of Vout	< 1 % of Vout
	VOLTAGE ADJ. RANGE	5.0 to 6.0 V	12 to 14 V	24 to 28 V	48 to 56 V
	VOLTAGE TOLERANCE	± 1 %			
	LINE REGULATION	± 1 %			
	LOAD REGULATION	± 1 %			
	TURN ON TIME	< 1 sec @ 230 VAC & < 3 sec @ 115 VAC, Full load			
	HOLD UP TIME	≥ 60 ms @ 230 VAC & ≥ 15 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 78 %	Up to 86 %	Up to 87 %	Up to 87 %
	AC CURRENT	1.2 A @ 115 VAC; 0.8 A @ 230 VAC			
	INRUSH CURRENT	< 48 Amps; Measured at 264 VAC, 25°C Ambient, Cold start			
	LEAKAGE CURRENT	< 1 mA; 264 VAC input			
PROTECTION	OVERLOAD	> 110% of rated output current; Hiccup type, Autorecovery			
	OVERVOLTAGE	7 - 9 VDC	15.5 - 18.5 VDC	28.5 - 33.5 VDC	56.5 - 65.5 VDC
	OUTPUT SHORT CIRCUIT	Latched type; Input AC power to be recycled to recover the power supply			
	OVER TEMPERATURE	Hiccup mode when output is shorted; Autorecovery type			
ENVIRONMENT	OPERATING TEMP	Power supply shuts down when the temperature of PCB below main transformer reaches typically 120°C; Turns on only after the temperature falls below 90°C typically and AC power is recycled thereafter.			
	STORAGE 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.)			
	COOLING	- 40°C to + 85°C			
	HUMIDITY	Natural convection cooled			
	ALTITUDE	5 to 95 % RH, Non condensing			
	VIBRATION	2000 m			
SAFETY & EMC	DIELECTRIC WITH STAND VOLTAGE	Component: 10 ~ 500 Hz, 2 G 10 min. / 1 cycle, period for 60 min. each along X, Y, Z axes			
	RELIABILITY	I/P to Earth: 2500 VAC I/P to O/P: 4000 VAC O/P to Earth: 1500 VAC			
OTHERS	MTBF	> 330K hrs. as per MIL-HDBK-217F (25°C)			
	DIMENSION	43 x 109.8 x 102.7 mm (W x H x D)			
	WEIGHT	285 gms			
	MOUNTING	35 mm DIN rail			

* Although power supply will work for the specified DC input voltage range, UL approval is only for the specified AC input voltage range.

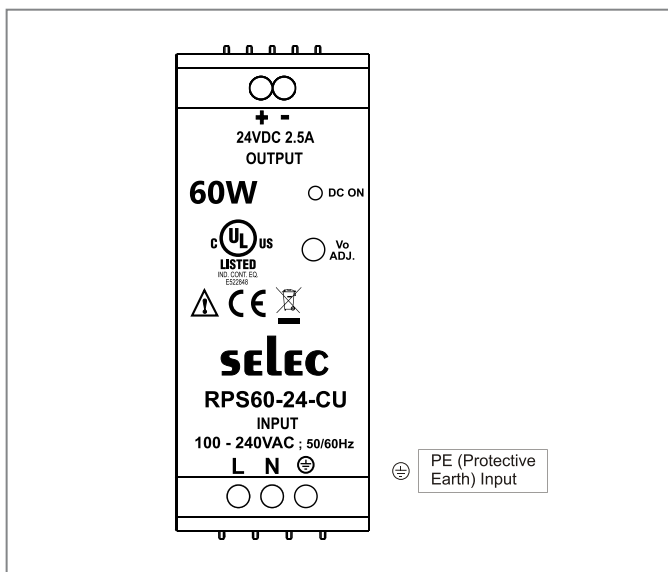
Connectors details

Description	Type	Torque
Input connector	GOOSVN : GS007S-7.5 OR Equivalent	0.5 Nm
Output connector	GOOSVN : GS007S-5.08 OR Equivalent	

Dimensions (All are in mm)



Terminal connections



Compliance

Applicable EMI / EMC Standards		
Category	Reference Standards	Testing Level
Conducted Emission	CISPR32	CLASS A
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	UL 508 approved (E522848) Designed to meet IEC 62368-1	

Ordering information

Product Code	Description	Certification
RPS60-05-CU	50 W, 05 V / 10 A DIN rail mounted Power Supply in Plastic Housing	CE, RoHS, UL LISTED
RPS60-12-CU	60 W, 12 V / 5 A DIN rail mounted Power Supply in Plastic Housing	CE, RoHS, UL LISTED
RPS60-24-CU	60 W, 24 V / 2.5 A DIN rail mounted Power Supply in Plastic Housing	CE, RoHS, UL LISTED
RPS60-48-CU	60 W, 48 V / 1.25 A DIN rail mounted Power Supply in Plastic Housing	CE, RoHS, UL LISTED

Derating curve

