PM-012S-10 / PM-024S-1.2 / PM-024S-2.5 / PM-024S-5 / PM-024S-10-SERIES

SINGLE PHASE SWITCHING POWER SUPPLY 12VDC / 10A 24VDC / 1.2A, 2.5A, 5A, 10A



12VDC / 10A / 120W



24VDC / 1.2A / 30W



24VDC / 2.5A / 70W



24VDC / 5A / 120W



24VDC / 10A / 240W

Specification

- Single Phase Switching Power Supply: PM-012S-10 and PM-024S Series are devices used to convert VAC or VDC input voltage into 12/24VDC output voltage.
- Protection Systems: Features Short Circuit, Overload, and Over-temperature protection.
- Isolation: Class II isolation, no grounding needed (No PE connector).
- Mounting: DIN Rail mounting.
- Applications: Suitable for systems requiring SELV and PELV.
  - SELV = Safety Extra Low Voltage.
  - PELV = Protective Extra Low Voltage.

Operation

Single Phase Switching Power Supply: The PM-024S Series is a power supply unit that utilizes high-frequency switching technology to convert voltage from a primary source (AC or DC) into the required output voltage, such as 12VDC or 24VDC.

- PM-012S-10 Input 90-264VAC / Output 120W (12VDC, 10A)
- PM-024S-1.2 Input 90-264VAC or 100-320VDC / Output 30W (24VDC, 1.2A)
- PM-024S-2.5 Input 90-264VAC or 100-320VDC / Output 70W (24VDC, 2.5A)
- PM-024S-5 Input 90-264VAC or 100-320VDC / Output 120W (24VDC, 5A)
- PM-024S-10 Input 100-253VAC / Output 240W (24VDC, 10A)

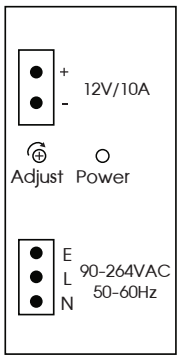
Specification

Input Technical Data	PM-012S-10	PM-024S-1.2	PM-024S-2.5	PM-024S-5	PM-024S-10
Input Rated Voltage	120-240VAC (Range 90-264VAC) /100-320VDC				
Frequency	50-60 Hz				
Current @Nominal Lout (Uin 120/230VAC)	0.55A ±10%				
Power Factor (p.f.)	> 0.60				
Internal Protection Fuse	1.25A Not Replaceable				
External Protection on AC Line	Circuit Breaker : 2AC Characteristic-Fuse : 2A				
Output Technical Data					
Output Rated Voltage	24VDC ±1%				
Output Rated Current	1.2A @50 °C				
Overload Limit	1.4A				
Load Regulation	<1%				
Ripple @Nominal Ratings	≤50 mVpp				
Overload/Short Circuit Protections	Pick-Up at The Overload Limit With Auto Reset				
Status display	"DC OK" Green LED				
Parallel Connection	Possible				
Redundant Parallel Connection	Possible With External Oring Diode				

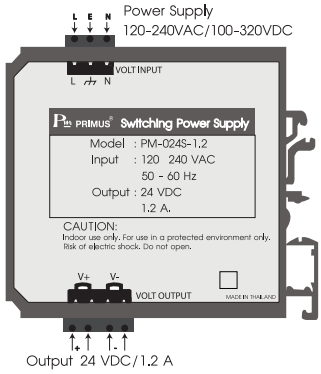
Specification [Continue]

Input Technical Data		PM-012S-10	PM-024S-1.2	PM-024S-2.5	PM-024S-5	PM-024S-10
General Technical Data						
Efficiency (Uin 120 / 230VAC)		>86% / >87%				
Power Consumption (Uin 120/230VAC)		4.7VA / 4.3VA				
Input/Output Isolation		3 KVac / 60s				
Input/Ground Isolation		Class 2 Without PE Connection				
Output/Ground Isolation		Class 2 Without PE Connection				
Ambient Operation	Temperature	-20 °C to 60 °C, with Derating 45 °C				
	Humidity	Over Temperature Protection				
Ambient Storage	Temperature	-20 °C to 80 °C				
	Humidity	85% RH Non-Condesing				
Protection Degree		IP 20				
Connection Terminal		2.5 mm^2 Fixed				
Installation		DIN RAIL Mounting				
Housing Material		UL94V-0 Plastic Material				
Size (mm.)		22.5 x 82.5 x 90.5				
Weight (kg.)		140				

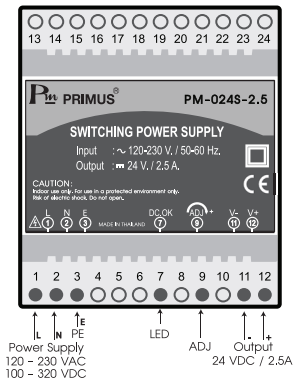
Wiring Diagram



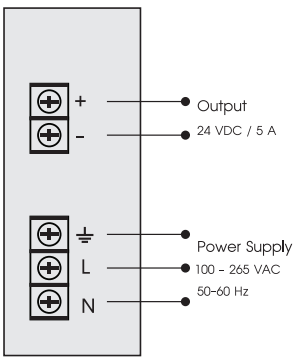
PM-012S-10



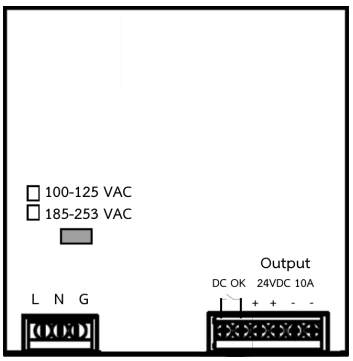
PM-024S-1.2



PM-024S-2.5

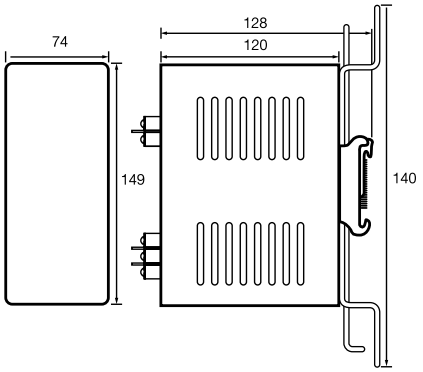


PM-024S-5

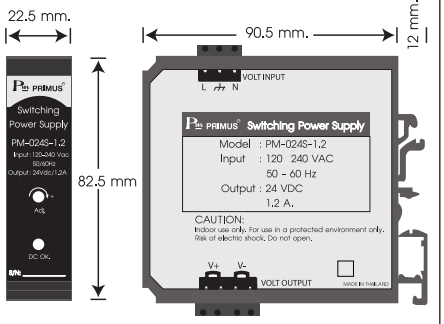


PM-024S-10

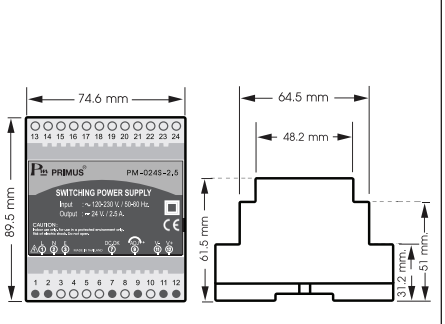
Dimension



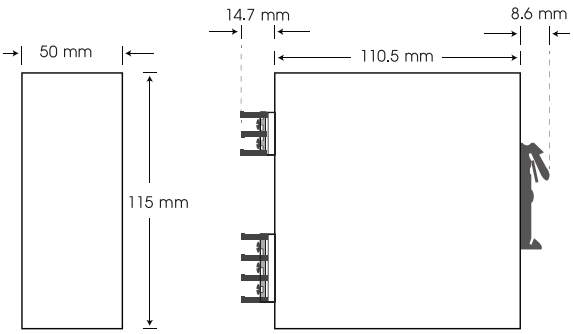
PM-012S-10



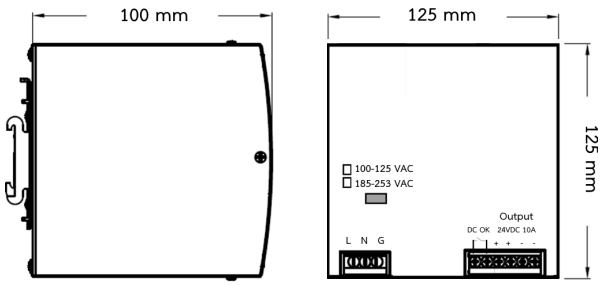
PM-024S-1.2



PM-024S-2.5



PM-024S-5



PM-024S-10

Ordering Code

Model	Output
PM-012S-10	10A
PM-024S-1.2	1.2A
PM-024S-2.5	2.5A
PM-024S-5	5A
PM-024S-10	10A

* Output voltage 12 VDC for this model only.