

PSG Series

General-purpose power supplies



Affordable, reliable power



The Eaton PSG Series of power supplies provides the perfect solution for 12 Vdc and 24 Vdc applications at an affordable price. Placing safety first, the PSG Series features IP20 finger-safe terminals and provides protection from overvoltage, overcurrent and overtemperature conditions. Designed for the highest reliability in all environments, the PSG Series offers a rugged aluminum housing, conformal coated electronics, Class I, Division 2 hazardous location ratings, all metal DIN rail mounting hardware and a 3-year standard warranty.

Features

- General-purpose 12 Vdc and 24 Vdc adjustable output
- 150% power boost for up to 5 s
- Wide operating temperature range: -25 °C to +80 °C
- Protection from overvoltage, overcurrent and over-temperature conditions
- Rugged aluminum and plastic housings
- Conformal coated electronics
- Hazardous location Class I, Division 2 ratings
- Redundancy modules
- Buffer modules
- NEC® Class II rating
- Heavy-duty screw and finger-safe terminals
- All metal DIN rail mounting hardware
- DC OK LED indication

Applications

- Industrial machinery
- Motor control centers and drive systems
- Conveyors and automation
- Material handling systems
- Process machine systems
- Custom OEM control panels
- Refrigeration, pumping and HVAC

Standards and certifications



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Screw type terminals—connections for those that require multiple types of terminations and lug connections



	Description	Catalog number
12 Vdc output single phase power supplies (100–240 Vac nominal input)	15 W 1.25 A output, plastic housing	PSG15E12SP
	30 W 2.5 A output, plastic housings	PSG30E12SP
	60 W 5 A output, aluminum housing	PSG60E12SM
	100 W 8.33 A output, aluminum housing	PSG100E12SM
24 Vdc output single phase power supplies (100–240 Vac nominal input)	60 W 2.5 A output, aluminum housing	PSG60E
	60 W 2.5 A output, plastic housing	PSG60E24SP
	120 W 5 A, aluminum housing	PSG120E
	240 W 10 A, aluminum housing	PSG240E
	480 W 20 A, aluminum housing	PSG480E

Finger safe terminals—connections for those that require IP-20 terminals for all your safety solutions



	Description	Catalog number
24 Vdc output single phase power supplies (100–240 Vac nominal input)	60 W 2.5 A output, aluminum housing	PSG60E24RM
	120 W 5 A, aluminum housing	PSG120E24RM
	240 W 10 A, aluminum housing	PSG240E24RM
	480 W 20 A, aluminum housing	PSG480E24RM
	60 W 2.5 A output, plastic housing, NEC Class 2	PSG60N24RP
24 Vdc output, three phase power supplies (400–500 Vac nominal input)	60 W 2.5 A, aluminum housing	PSG60F24RM
	120 W 5 A, aluminum housing	PSG120F24RM
	240 W 10 A, aluminum housing	PSG240F24RM
	480 W 20 A, aluminum housing	PSG480F24RM
	960 W 40 A, aluminum housing	PSG960F24RM
Module power supplies (24 Vdc input)	Buffer module, 480 W 20 A output, aluminum housing	PSG480B24RM
	Redundancy module, 480 W <20 A output, aluminum housing	PSG480R24RM
	Redundancy module, 960 W <40 A output, aluminum housing	PSG960R24RM

FAQs

What is the NEC Class 2 model?

The NEC Class 2 model is certified as a NEC Class 2 power source. This means that after a small start-up window, the power supply cannot exceed a maximum of 100 W under any circumstances including overload, short-circuit or internal failure.

What do the redundancy modules do?

The redundancy modules allow for two or more power supplies to be connected together to perform parallel or redundancy operation. Parallel operation or load sharing is when the load is split evenly between two or more power supplies. Redundancy operation is where N number of power supplies are required for the load and one additional power supply is connected in the event that one should fail.

How does the buffer module work?

The buffer module uses maintenance-free electrolytic capacitors to store energy. In the event that the input voltage to the system is lost briefly, the stored energy in the buffer module allows for the load to remain powered for 250 ms at 20 A or 5 s at 1 A.



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