

Technical data



PSG general-purpose **PSL low-profile** **PSC compact**

	PSG general-purpose	PSL low-profile	PSC compact
Output			
Nominal voltage	12 Vdc 24 Vdc	24 Vdc	24 Vdc
Maximum current range	1.25-8.33 A (12 Vdc) 2.5-40.0 A (24 Vdc)	0.42-3.8 A	1.25-4.0 A
Maximum power range	15-100 W (12 Vdc) 60-960 W (24 Vdc)	15-100 W	30-100 W
Surge voltage	150%	100%	100%
Voltage adjustment	11-14 Vdc 22-28 Vdc	24-28 Vdc	24-28 Vdc
Input			
Nominal voltage	100-240 Vac	100-240 Vac	100-240 Vac
AC input range	85-264 Vac	90-264 Vac	85-264 Vac
DC input range	120-375 Vdc	125-375 Vdc	120-375 Vdc
Frequency	47-63 Hz	47-63 Hz	47-63 Hz
Phases	Single, Two, Three	Single	Single
Reliability			
Class I Div 2	Yes	No	No
MTBF	Up to >1,000,000 hours	>500,000 hours	>350,000 hours
Warranty	3 years	3 years	3 years
Safety/Protections			
Short-circuit protection	Non-latching auto-recovery	Yes	Yes
Overcurrent protection	>150% non-latching auto-recovery	>120% non-latching auto-recovery	105-140% Foldback mode auto-recovery
Overvoltage protection	SELV Output, non-latching auto-recovery	SELV Output, Latch-off mode	SELV Output, Latch mode
Overtemperature protection	<80° C non-latching auto-recovery	<75° C non-latching auto-recovery	<75° C non-latching auto-recovery
Physical Data			
Housing	Metal, Plastic	Plastic	Plastic
Terminals	Screw, IP20 Finger-safe	IP20 Finger-safe	IP20 Finger-safe
Signals	Green LED for DC OK	Green LED for DC OK	Green LED for DC OK
Standards			
UL 508	Yes	Yes	Yes
UL 1310	Class 1, Class 2	Class 2	Class 2
UL 60950-1	Yes	Yes	Yes
CE	Yes	Yes	Yes
CSA 22.2	Yes	Yes	Yes
RoHS	Yes	Yes	Yes
ATEX	Yes	No	No
Class 1, Division 2	Yes	No	No

Have you thought about...

Safety

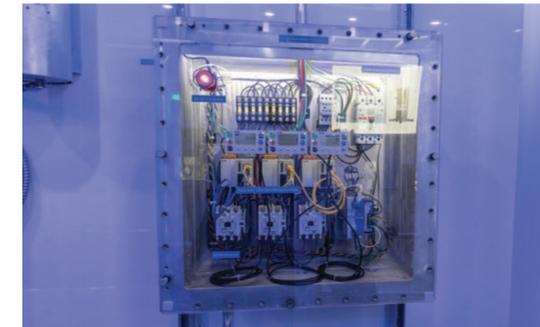
NEC Class 2 classification allows protection against both fire initiation and shock for components that are fed by the power supply. As defined in NFPA 70: National Electric Code, a 24V power supply limits the output current to 8.0 Amps even under short-circuit or component failure conditions. Common applications for Class 2 circuits are signaling, communication, wiring near combustible materials, and other user interface applications in which an operator or other equipment could be exposed to a shock or easy fire ignition. This rating also reduces the need for other overcurrent protection methods, minimizing assembly overhead costs and agency testing time that brings true value to your customers.

Durability

PSG offers a wide variety of output voltage and power ratings that come with certifications to perform in the harshest of industrial conditions. ATEX, Class 1 Division 2, conformal coating, and UL certifications allow for compliance to customer specifications no matter the industry. When you need reliable, quality power, PSG has you covered.

Machinery OEM specifications

Control panel footprint is continually shrinking, so PSL and PSC offer flexible options to supply reliable power in a compact package. Parallel wiring can be employed to increase available output power while continuing to make use of the minimal footprint in your panel. IEC Class II rated PSL offers easy wiring time reduction by eliminating the need for electrical earth ground connection. In ultra-cold environments, PSC delivers a -40° C cold-start temperature rating to ensure your systems continue to perform.



For more information, please visit
Eaton.com/powersupplies

PSG, PSL, and PSC series power supplies

Think differently

Eaton's robust line of power supply innovations



Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

© 2019 Eaton
All Rights Reserved
Printed in USA
Publication No. BR055001EN
December 2019

Eaton is a registered trademark.

All other trademarks are property of their respective owners.



Think differently about Eaton's power supply solutions

Eaton's power supply portfolio represents a complete set of universal input, industrial power products designed for machinery OEMs and industrial control applications. PSG general-purpose provides high-performance and reliability with 150% current-surge capabilities. PSL low-profile and PSC compact are small frame, NEC Class 2 power supplies designed to reduce panel footprint without compromising electrical fire and shock prevention.

Withstands 150% current surges up to 5 seconds



PSG general-purpose

Designed for high-performance and reliability, PSG delivers quality power in a wide variety of industrial applications with universal input voltages in 12 or 24 Vdc outputs.

High-Performance

PSG offers high efficiency power, capable of withstanding 150% current surges up to 5 seconds along with over-voltage, over-current, and over-temperature fault protections.

Heavy-duty

Class 1 Division 2, ATEX, UL, CSA, IEC, CE, and RoHS compliance allow PSG to perform in hazardous, industrial environments while conforming to industry standards of safety and reliability.

Redundancy

Capacitor powered buffer modules carry loads through short power interruptions and redundancy modules allow for N+1 redundancy in critical applications.

NEC Class 2 & IEC Class II certifications



PSL low-profile

Ideal for panel builders looking to maximize their electrical fire and shock protection with limited DIN rail space. NEC Class 2 certification allows for added protection by limiting maximum power to under 100W at 24 Vdc even under short-circuit conditions or component failure, thereby protecting your personnel, equipment, and facility from harm.

Space Saving

A minimal footprint allows machine builders to install their control panel solutions in smaller enclosures for sleek and competitive designs.

Easy to wire

IEC Class II double insulation reduces wiring time by removing the need to wire to an electrical earth ground, which also reduces leakage current.

Versatile

With available output power ratings between 10W and 100W, PSL can easily and discretely supply power to light load control circuits without the space or expense of an oversized power supply.

-40° C in an NEC Class 2 compact footprint



PSC compact

For demanding cold start temperatures, PSC offers -40° C in an NEC Class 2 compact footprint. Available in 3 different output power ratings with standard IP20 finger-safe terminals for shock prevention.

Reliable

High Mean Time Between Failure (MTBF), and wide operating temperature ratings allow PSC a long service life in harsh industrial conditions.

Parallel operation

PSC can be wired in parallel to another power supply to increase the output power while maintaining the slim profile advantage.

Adjustable

Output voltage is adjustable with a faceplate screw that allows up to 28 Vdc to account for voltage drops across long wiring configurations.