# Westermo

## DIN-rail Power Supply PS-60

#### Compact PSU for demanding edge network applications

- Compact, slim design catering for space savings
- Handles short power interruptions, ensuring system operation
- Rigorously tested and approved to several demanding industry standards

#### • Powerful and efficient

- Impressive power budget of 60W and more with boost functionality
- Manages start-up currents and power spikes with dynamic boost
- Excellent power efficiency, 92%, and low heat dissipation
- Robust and reliable
  - Long service life, thanks to high MTBF > 700,000 hrs
  - Operating temperatures from -25 to +70°C, start-up capacity in -40°C
  - Wiring is secured with screw connectors, for safe and reliable installation



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The PS-60 is a perfect companion to most devices in the Westermo portfolio, designed to match the robust and reliable products that Westermo is known for. With superior buffering capacity and EMC immunity, the PS-60 can power network communication equipment even in harsh applications such as trackside and substation automation. The compact form factor of the PS-60 occupies a very small part of the DIN-rail, 32mm, leaving room for more mission critical equipment.

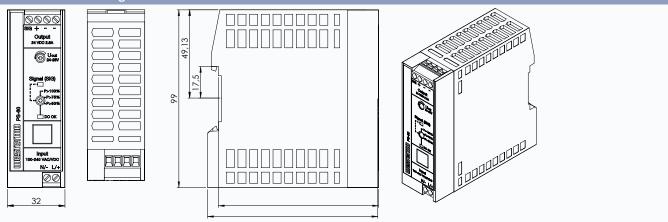
The PS-60 supports wide ranges of input voltage, both AC and DC, supporting most applications and scenarios. With a 60 W power budget, the PS-60 provides a high level of flexibility for various load scenarios, such as powering of several switches or other equipment from one single power supply. In addition, the device provides static boost which allows for system expansion and dynamic boost which removes the need for over dimensioning the PSU to manage start-up currents.

With its wide operating temperature range and tolerance for tough shock and vibrations, installation in a multitude of conditions are possible. Combined with excellent MTBF values and a wide operating temperature range, the PS-60 can be used to power anything from a simple unmanaged switch to a managed, high end switch for substation automation. Whatever your needs, the PS-60 is an ideal companion.

Ordering information	
Art. no.	Description
3125-0150	PS-60, DIN-rail Power Supply

### Specifications - PS-60





General data	
Dimensions ( $W \times H \times D$ )	32 x 99 x 90 mm
Weight	0.25 kg
MTBF hours	734,000 at 40 °C (IEC 61709, SN29500)
Housing	Plastic (polycarbonate)
Warranty	5 years

Input power data	
Rated input voltage	100 to 240 VAC, 50 to 60 Hz or 110 to 250 VDC
Operating input voltage	85 to 264 VAC, 45 to 66 Hz or 88 to 350 VDC
Rated current (nominal)	0.39 A at 230 VAC, 0.75 A at 110 VDC
Electric strength, maximum	300 VAC for 30 s
Discharge current to PE typical	< 0.25 mA (264 V AC, 60 Hz) 0.22 mA (264 V AC, 60 Hz)
Mains buffering (120 and 130 VAC)	> 54 ms
Typical response time	500 ms
Hold up time	5 periods
Protective circuit	Transient surge protection varistor
Switch-on current surge	4.3 A
Inrush surge current l <sup>2</sup> t	< 0.1 A <sup>2</sup> s
Input fuse slow-blow, internal	3.15 A

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Output power data	
Output voltage	24 to 28 VDC, adjustable by potentiometer
Output current	2.5 A 3,125 A (static boost, permanently available up to 40 °C) 5 A (dynamic boost, available for 5 sec up to 60 °C)
Control deviation	< 0.5 % (Static load change 10 to 90%) < 2 % (Dynamic load change 10 to 90 %, 10 Hz) < 0.1 % (Change in input voltage ±10 %)
Short-circuit proof	Yes
No-load proof	Yes
Residual ripple	< 40 mVPP
Feedback resistance	≤ 35 VDC
Circuit breaker against surge voltage at output by invasive foreign matter	≤ 35 VDC (load impedance <90 mOhm)
Rise time typical	50 ms (UOut = 10 to 90 %

Environmental	
Ingress protection	IP20
Operating temperature	-25 to +70 °C (-40 °C startup) > 60 °C, derating: 2.5 %/K
Storage and transport temperature	-40 to +85 °C (-58 to +185 °F)
Humidity (operating)	<b>≤</b> 95 %
Altitude	≤ 5000 m (>2000 m, observe derating)

Approvals	
EMC	IEC 61850-3, Communication networks and systems for power utility automation – Part 3: General requirements EN/IEC 61000-6-2, Immunity industrial environments EN/IEC 61000-6-4, Emission industrial environments EN/IEC 61000-6-5, Immunity power station and substation environments
Safety	IEC 61558-2-16, Safety of power supply units etc. EN/IEC/UL 61010-1 Safety requirements for electrical equipment for measurement, control, and laboratory use EN/IEC/UL 61010-1 (SELV), EN/IEC/UL 61010-2-201 (PELV)
Trackside	EN 50121-4/IEC 62236-4, Railway signalling and telecommunications apparatus
Marine	DNV GL rules for classification - Ships and offshore units