

## DIN-rail Power Supply Unit PS-260

- **PSU for demanding edge network applications**
  - Perfect companion for PoE-products
  - Compact, slim design catering for space savings
  - Rigorously tested and approved to several demanding industry standards
- **Powerful and efficient**
  - Impressive power budget of 260 W
  - Power boost up to 20 %
  - Adjustable power output of 48-56 VDC
- **Robust and reliable**
  - Unique 1500 VAC output to ground isolation for PoE standard fulfillment
  - High immunity to transients, power surges and electromagnetic emission
  - Wiring is secured with screw connectors, for safe and reliable installation



**EN 50121-3-2**  
Rolling Stock

**EN 50121-4**  
Railway Trackside

**EN 61000-6-2**  
Industrial Immunity

**EN 61000-6-4**  
Industrial Emission

**EN 61010-1**  
Safety Industrial Equipment

The PS-260 is a reliable and compact DIN-rail mountable power supply optimized for Power over Ethernet applications. It is built to match Westermo's reputation for robust and reliable products and is ideally suited for powering Westermo's Lynx-3510-PoE. Its compact form factor occupies only 39mm of the DIN-rail, leaving room for more mission-critical equipment.

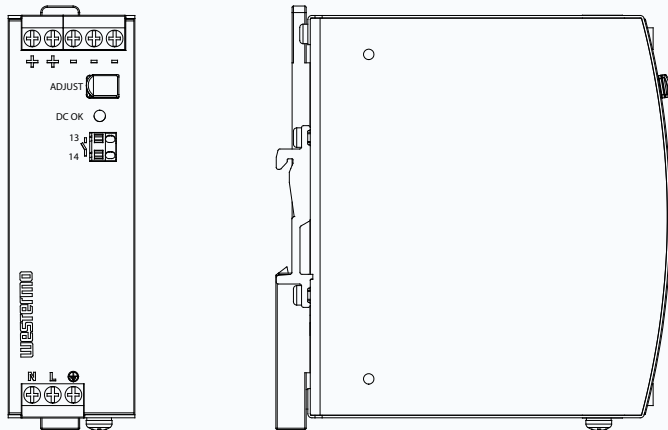
The PS-260 supports wide input voltage ranges, both AC and DC, making it compatible with most applications and scenarios. With a 260 W power budget, it provides high flexibility for various load scenarios. Whether the need to power a single high-end PoE switch or multiple switches, the PS-260 is a helpful companion.

The PS-260 units are high-end power supplies offering premium quality, reliability, and performance. Its outstanding features include high efficiency, advanced inrush current limitation, active PFC, and a wide operational temperature range. With PowerBoost, the PS-260 can provide power reserves of up to 20 %.

In addition to its impressive power capabilities, the PS-260 also offers high immunity to transients and power surges, low electromagnetic emissions, a DC-OK relay contact, and a large international approval package for a variety of applications. All of these features make the PS-260 suitable for nearly every situation. Choose the PS-260 for a reliable and flexible power supply solution.

# Specifications - PS-260

## Dimensional drawing



## General data

|                        |                                                   |
|------------------------|---------------------------------------------------|
| Dimensions (W x H x D) | 39 x 124 x 117 mm                                 |
| Weight                 | 0.6 kg                                            |
| Housing                | Full metal (aluminum alloy and zinc-plated steel) |

## Input power data

|                                        |                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------|
| Rated input voltage                    | 100 to 240 VAC, 50 to 60 Hz<br>110 to 159 VDC                                   |
| Operating input voltage                | 85 to 264 VAC, 47 to 63 Hz<br>88 to 180 VDC                                     |
| Rated current (5,4 A at 48 VDC output) | 2.82 A at 100 VAC<br>2.32 A at 120 VAC<br>1.2 A at 230 VAC<br>2.51 A at 110 VDC |
| Hold up time                           | 34 ms at 120/230 VAC                                                            |
| Inrush current                         | 9 A peak at 100 VAC<br>6 A peak at 120/130 VAC                                  |
| Inrush energy                          | 0.1 A <sup>2</sup> s at 100/120 VAC<br>0.4 A <sup>2</sup> s at 230 VAC          |
| Input transient protection             | MOV (Metal Oxide Varistor)                                                      |
| Input fuse, internal                   | Included, slow-blow high-braking capacity fuse                                  |

## Output power data

|                          |                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Output voltage           | 48 to 56 VDC, adjustable by potentiometer                                                                                                    |
| Output voltage (default) | 54 VDC                                                                                                                                       |
| Output current           | 6.0 A at 48 VDC / 5.2 at 56 VDC up to +45 °C<br>5.4 A at 48 VDC / 4.6 at 56 VDC up to +60 °C<br>4.0 A at 48 VDC / 3.4 at 56 VDC up to +70 °C |

## Galvanic Isolation

|                               |          |
|-------------------------------|----------|
| Input to output               | 4000 VAC |
| Input to ground               | 2500 VAC |
| Output to ground              | 1500 VAC |
| Output to DC OK relay contact | 500 VAC  |

## Environmental

|                    |      |
|--------------------|------|
| Ingress protection | IP20 |
|--------------------|------|

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| Environmental                     |                              |
|-----------------------------------|------------------------------|
| Operating temperature             | -25 to +70 °C                |
| Storage and transport temperature | -40 to +85 °C                |
| Humidity (operating)              | 5 to 95 %, relative humidity |
| Altitude                          | ≤ 6000 m                     |
| Altitude derating                 | 15 W / 1000 m above 2000 m   |

| MTBF                    |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| MTBF (Siemens SN 29500) | 230 VAC: 699,000 hours<br>120 VAC: 523,000 hours<br>100 VAC: 506,000 hours |
| MTBF (MIL-HDBK 217 F)   | 230 VAC: 248,000 hours<br>120 VAC: 224,000 hours<br>100 VAC: 223,000 hours |

| Approvals |                                                                                                                                                                                         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC       | EN 50121-3-2/IEC 62236-3-2 Railway applications - Rolling stock - apparatus<br>EN/IEC 61000-6-2, Immunity industrial environments<br>EN/IEC 61000-6-4, Emission industrial environments |
| Trackside | EN 50121-4/IEC 62236-4, Railway signalling and telecommunications apparatus                                                                                                             |
| Safety    | EN/IEC/UL 61010-1, -2-201, Safety requirements for electrical equipment for measurement, control, and laboratory use                                                                    |

| Warranty |         |
|----------|---------|
| Validity | 5 years |

| Ordering information |                                    |
|----------------------|------------------------------------|
| Art. no.             | Description                        |
| 3125-0160            | PS-260, DIN-rail Power Supply Unit |