

Product data sheet

Specifications



Easergy PS50-48V: Power supply and battery charger 12V and 48V outputs

EMS58588

Main

Range Of Product	Easergy T300
Device Short Name	PS50

Complementary

Product Or Component Type	Power supply
Product Compatibility	BAT24AH BAT38AH
[Us] Rated Supply Voltage	110...240 V DC 110...240 V AC 50/60 Hz
Output Voltage	12 V DC 48 V DC
Communication Port Protocol	Modbus
Communication Port Support	RS485
Input Voltage Limits	440 V AC/DC (L-N)
Number Of Outputs	1 digital (relay) battery fault (BAT): 1 digital (relay) main presence:
Rated Short-Duration Power Frequency Withstand Voltage	10 kV at 50 Hz during 1 min
Surge Withstand	20 kV during 1.2/50 µs
Protection Type	Against short-circuits Integrated thermal protection
Battery Capacity	24 Ah at 12 V, lead-acid battery 38 Ah at 12 V, lead-acid battery
Typical Battery Back-Up Autonomy	16 h
Typical Battery Recharge Time	24 h

Environment

Mounting Support	DIN rail
Operating Position	Vertical
Overvoltage Category	IV

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Electromagnetic Compatibility	Electrical fast transient/burst immunity test - test level: level 4 criteria A conforming to IEC 61000-4-4 Conducted RF disturbances - test level: level 3 criteria A conforming to IEC 61000-4-6 Conducted disturbance emission - test level: level 4 criteria A conforming to IEC 61000-4-16 100 kHz damped oscillating wave - test level: level 3 criteria A conforming to IEC 61000-4-12 Radiated radio-frequency electromagnetic field immunity test - test level: level 4 criteria A conforming to IEC 61000-4-3 Immunity to voltage dips criteria A conforming to IEC 61000-4-29 Electrostatic discharge - test level: level 4 criteria B conforming to IEC 61000-4-2 Surge immunity test - test level: level 3 criteria A conforming to IEC 61000-4-5 Magnetic field at power frequency - test level: level 5 criteria B conforming to IEC 61000-4-8 Conducted and radiated emissions class A conforming to EN 55022
Standards	IEC 60255-27
Product Certifications	CE
Ip Degree Of Protection	IP20 conforming to IEC 60529
Ik Degree Of Protection	IK07 conforming to IEC 62262
Ambient Air Temperature For Operation	-40...70 °C
Ambient Air Temperature For Storage	-40...70 °C
Relative Humidity	5...95 % conforming to IEC 60068-2-30
Operating Altitude	2000 m
Mechanical Robustness	Vibrations 10...2000 Hz 1 gn 10 cycles conforming to IEC 60068-2-6 Bumps 10 gn 16 ms 1000 bumps non energized conforming to IEC 60068-2-29 Shocks 10 gn 11 ms 3 pulses in operation conforming to IEC 60068-2-27
Height	190 mm
Width	270 mm
Depth	71 mm
Net Weight	2.75 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14 cm
Package 1 Width	27.6 cm
Package 1 Length	36.2 cm
Package 1 Weight	3.222 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	2
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	6.83 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	16
Package 3 Height	45 cm
Package 3 Width	80 cm

Package 3 Length	120 cm
Package 3 Weight	68.5 kg

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓ Reach Free Of Svhc

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov