Product data sheet

Specifications

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

EMS58588

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Easergy T300
Device short name	PS50
Product or Component Type	Power supply

Complementary

[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	Battery fault (BAT) 1 digital (relay) Main presence 1 digital (relay)
Product Compatibility	BAT24AH BAT38AH
Battery capacity	24 Ah 12 V, Lead-Acid battery 38 Ah 12 V, Lead-Acid battery
typical battery back-up autonomy	16 h
typical battery recharge time	24 h
Protection Type	Against short-circuits Integrated thermal protection
Rated short-duration power frequency withstand voltage	10 kV 50 Hz 1 min
Surge withstand	20 kV 1.2/50 µs

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

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 - test level: level 4 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 - test level: level 5 class A conforming to EN 55022
Standards	IEC 60255-27
IP degree of protection	IP20 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-40…158 °F (-40…70 °C)
Ambient Air Temperature for Storage	-40…158 °F (-40…70 °C)
Relative humidity	5…95 % conforming to IEC 60068-2-30
Operating altitude	6561.68 ft (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	7.5 in (190 mm)
Width	10.6 in (270 mm)
Depth	2.8 in (71 mm)
Product Weight	6.06 lb(US) (2.75 kg)

Ordering and shipping details

Category	US1RTU108642
Discount Schedule	RTU1
GTIN	3606480802546
Returnability	No
Country of origin	PL

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	5.51 in (14 cm)
Package 1 Width	10.87 in (27.6 cm)
Package 1 Length	14.25 in (36.2 cm)
Package weight(Lbs)	7.103 lb(US) (3.222 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Height	11.81 in (30 cm)
Package 2 Width	11.81 in (30 cm)

Package 2 Length	15.75 in (40 cm)
Package 2 Weight	15.06 lb(US) (6.83 kg)
Unit Type of Package 3	P12
Number of Units in Package 3	16
Package 3 Height	17.72 in (45 cm)
Package 3 Width	31.50 in (80 cm)
Package 3 Length	47.24 in (120 cm)
Package 3 Weight	151.02 lb(US) (68.5 kg)

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	677
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
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

Use Again

Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.