

Product data sheet

Specifications



Easergy PS50-24V: Power supply and battery charger 12V and 24V outputs

EMS58587

Main

Range of product	Easergy T300
Device short name	PS50

Complementary

Product or component type	Power supply
Product compatibility	BAT38AH BAT24AH
[Us] rated supply voltage	110...220 V DC 90...264 V AC 50/60 Hz
Output voltage	12 V DC 24 V DC
Communication port protocol	Modbus
Communication port support	RS485/RS232
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	Integrated thermal protection Against short-circuits
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
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	3000 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 Weight	3.11 kg
Package 1 Height	13.3 cm
Package 1 width	27 cm
Package 1 Length	36.3 cm
Unit Type of Package 2	P12
Number of Units in Package 2	16
Package 2 Weight	67 kg
Package 2 Height	45 cm
Package 2 width	80 cm
Package 2 Length	120 cm
Unit Type of Package 3	S03
Number of Units in Package 3	2
Package 3 Weight	6.699 kg
Package 3 Height	30 cm
Package 3 width	30 cm
Package 3 Length	40 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant

EU RoHS Declaration	
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
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