

METERS

EXTERNAL METER FOR DYNAMIC LOAD MANAGEMENT

up to 300 A

METERS is an external energy meter for the eMH2/eMH3 controller wallboxes, the eMC2/eMC3 controller charging poles and the external control unit when used in group installations. METERS allows dynamically controlled, efficient distribution of the available charging current to up to 16 charge points by measuring the building load via the three cable type current transformers. ABL's intelligent load management can measure loads of up to 300 A to ensure that electric vehicles can charge at the maximum available charging current.



General information

Model	Ammeter and external cable type current transformers
Product number	METERS
EAN number	4011721187907
Commodity code	90318080
Packaging unit (PU)	1 unit
Packaging (dimensions HxWxD)	265 x 205 x 120 mm
Net weight	0.8 kg
Gross weight	1.2 kg
Items supplied	Energy meter, 3 cable type current transformers up to 300 A, download information

Compatibility

Compatible product ranges	eMH2/eMH3 Wallbox eMC2 / eMC3 charging pole 1V0001 / 1V0002 external control unit
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Cable type current converter specifications

IP rating	IP20
Operating temperature	-20 to 65°C
Ambient temperature (storage)	-25 to 80°C
Cable type current converter dimensions	65.5 × 46 × 35 mm
Secondary output	UL R/C cable, 16 AWG (1.3 mm ²)
Cable diameter	24 mm
Cable length	0.5 m
Primary/secondary power	300 / 5 A
Frequency	50 / 60 Hz
Nominal insulation level	0.72 kV ac, dielectric strength 3 kV ac for 1 minute
Insulation class	Thermal class B (IEC 60085)
Accuracy (EN61869-2)	Class 1
Burden	2.5 VA

Energy meter specifications

Protection class front / screw terminals	IP40 / IP20
Operating temperature	-25 to 55°C
Ambient temperature (storage)	-30 to 70°C
Energy meter dimensions	72 × 72 × 65 mm
Installation	Panel and DIN rail
Overvoltage category	Cl. III
Insulation (for 1 minute)	4,000 VRMS between input measurement and digital output
Dielectric strength	4,000 VAC RMS for 1 minute
Noise suppression ratio CMRR	100 dB, 48 to 62 Hz
EMC in accordance with EN62052-11	
– Electrostatic discharges	15 kV air discharge
– Immunity to electromagnetic fields	Test with current: 10 V/m at 80 to 2,000 MHz; Test without current: 30 V/m from 80 to 2,000 MHz
– Burst noise	On the current and input voltage measuring circuit: 4 kV
– Immunity to conducted interferences	10 V/m from 150 kHz to 80 Mhz
– Overvoltage	On the current and input voltage measuring circuit: 6 kV
– Radio interference suppression	In accordance with CISPR 22
Standard compliance	
– Safety	EC60664, IEC61010-1 EN60664, EN61010-1 EN62052-11
– Measurement technology	EN62053-21, EN62053-23, EN50470-3
– Pulse output	DIN43864, IEC62053-31
– Approvals	CE, cULus listed (AV only)
Connectors	
	Screw connection
– Cable cross section	2.4 × 3.5 mm
– Min./max. screw tightening torque	0.4 Nm / 0.8 Nm

Subject to change: All performance characteristics, technical and other specifications are subject to change without prior notice.