

# MR

## Series retrofit battery charger

The Autarco MR series retrofit battery charger offer the best and most reliable performance in its class. It is compatible with both lead-acid and lithium-ion batteries, ensuring a versatile storage solution that can be retrofit integrated into any existing PV system.

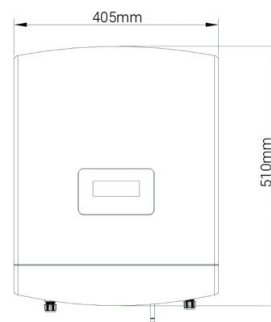
- + Eligible for Autarco's insured kWh Guarantee
- + Compatible with both lead-acid and lithium-ion batteries
- + Wide battery voltage range
- + Easily added to existing Solar PV systems
- + Back up function during blackouts
- + Uninterrupted power supply, 20ms reaction
- + EPS function
- + Off-grid backup function
- + Intelligent EMS function



## General characteristics

<b>Dimensions (W x H x D)</b>	405 x 510 x 150 mm
<b>Net Weight</b>	12,1kg
<b>Mounting</b>	Wall bracket
<b>Max. site altitude</b>	2000m
<b>IP protection class</b>	IP65
<b>Topology (battery)</b>	High frequency
<b>Cooling principle</b>	Natural convection
<b>Warranty</b>	5 years, extendable to 15 years
<b>Compatible battery types</b>	Lithium-ion, Lead acid (40-60V)
<b>LED indicators</b>	3
<b>LCD display</b>	2 x 20 characters
<b>Communication interfaces</b>	1 x RS485, 1 x CAN (Battery)
<b>Optional interfaces</b>	WiFi, 4G, LAN
<b>Safety / EMC Standards</b>	IEC 62477, EN 61000-6-2/-3

Front



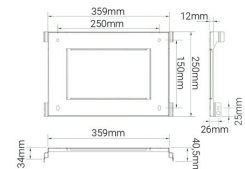
Side



Bottom



Bracket



# Output AC (Grid side)

S2.MR3000	
AC connection	220/230 VAC
Power connection	1/N/PE
Rated AC power (W)	3000
Rated AC current at 220V/230V (A)	13.6 / 13
Max. AC power (W)	3000
Max. apparent output power (VA)	3300
Max. AC current at 220V/230V (A)	30
Grid voltage range (V)	184 - 264 V
Rated grid frequency (Hz)	50 / 60
Grid connection standards	G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/ UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, MEA, PEA
Power factor	0.8...1...0.8
Harmonic distortion (%)	< 3%

# Battery

Battery voltage range (V)	40-60
Battery capacity (Ah)	50-2000
Max. charge (W)	3000
Max. charge / discharge current (A)	60

# Output AC (Backup)

Rated output power (W)	3000 (Requires battery voltage higher than 55 V)
Max. apparent output power (VA)	4500
Rated output voltage (V)	1/N/PE, 220 / 230
Rated frequency (Hz)	50 / 60
Rated output current at 220V/230V (A)	13.6 / 13
Harmonic voltage (%)	< 3%

# Input AC (Grid side)

Input voltage range (V)	184 - 264
Max. input current (A)	23
Frequency range (Hz)	45-55 Hz / 55-65

# Efficiency

Max. battery charge efficiency	94.0%
Max. battery discharge efficiency	94.5%
Back-up switch time (ms)	< 20

# Other characteristics

Operating temperature range	-25°C to +60°C
Relative humidity range	0% to 100%

# Protection

Battery reverse protection	Integrated
Battery over / under voltage protection	Integrated
Short circuit protection	Integrated
Output over current protection	Integrated
Temperature protection	Integrated

