






# MR series retrofit battery charger

# autarco

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



## QUALITY CERTIFICATES

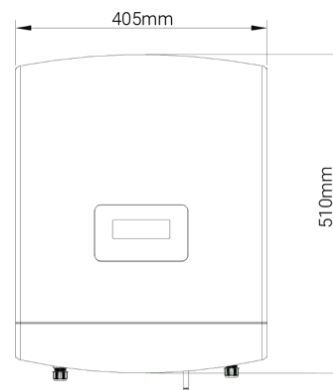
- ◆ IEC 61727, IEC 62116, IEC 62477-1
- ◆ EN 61000-6-2/-3
- ◆ EN50549-1, VDE-AR-N 4105, VDE 0126, RD647, CEI 0-21, C10/11



## GENERAL CHARACTERISTICS

<b>Warranty</b>	Standard 5 yrs. extendable to 15 yrs.
<b>Dimensions (W x H x D)</b>	405 x 510 x 150 mm
<b>Mounting</b>	Wall bracket
<b>Weight</b>	12.1 kg
<b>Max. site altitude</b>	2000m
<b>IP protection class</b>	IP65
<b>Isolation type</b>	High frequency
<b>Cooling principle</b>	Natural convection
<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>DC switch</b>	Integrated (optionally excluded)

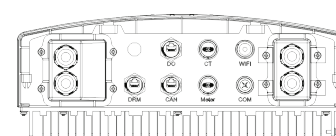
Front



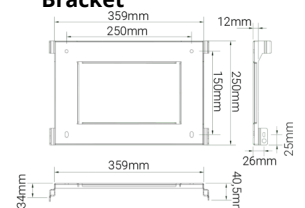
Side



Bottom



Bracket



# GRID OUTPUT CHARACTERISTICS

S2.MR3000

AC connection	220/230 VAC
Power connection	1-phase
Rated AC power (W)	3000
Rated AC current (A) at 220V/230V	13.6 / 13
Max. AC power	3300
Max. AC current (A) at 220V / 230V	20
Grid voltage range (V) & frequency range (Hz)	TBD
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 power (A)	60

## OUTPUT AC (BACKUP)

Rated output power (W)	3000
Max. apparent output power (W)	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%

## EFFICIENCY

Max. battery charge efficiency	94.0 %
Max. battery discharge efficiency	94.5 %
Battery 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