

MR series retrofit battery charger

atarco

The Atarco 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 Atarco'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

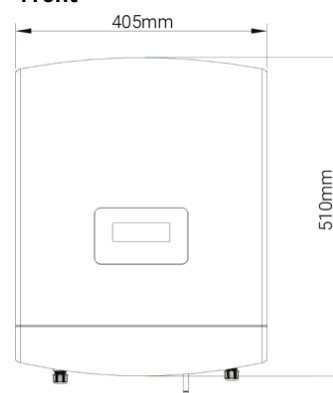
- ♦ IEC 61727, IEC 62116, IEC 62477-1
- ♦ EN 61000-6-2/-3
- ♦ EN50549-1, VDE-AR-N 4105, VDE 0126, RD647, CEI 0-21, C10/11



GENERAL CHARACTERISTICS

Warranty	Standard 5 yrs. extendable to 15 yrs.
Dimensions (W x H x D)	405 x 510 x 150 mm
Mounting	Wall bracket
Weight	12.1 kg
Max. site altitude	2000m
IP protection class	IP65
Isolation type	High frequency
Cooling principle	Natural convection
Compatible battery types	Lithium-ion, Lead acid (40-60V)
LED indicators	3
LCD display	2 x 20 characters
Communication interfaces	1 x RS485, 1 x CAN (Battery)
Optional interfaces	WiFi, 4G, LAN
DC switch	Integrated (optionally excluded)

Front

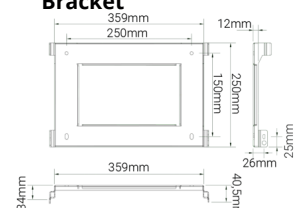


Bottom

Side



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 / 14.3
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