

## Energy Storage Inverter

MF-RHO-6K-LV



Supports up to 10-unit parallel operation in both on-grid and off-grid modes, featuring scalable capacity.



Equipped with GEN port, compatible with diesel generators, smart loads, and AC coupling.



IP66 rated enclosure, designed for both indoor and outdoor deployment in harsh environments.



Supports setting 9 periods, including three periods each for self-consumption, battery charge, and battery discharge.



Supports 7 intelligent working modes and automatically switch within 10ms.



Silent fanless design with zero-maintenance reliability.

**Input DC (PV side)**

Max. PV access power	12kW
Max. PV input power	9.6kW
Max. PV input voltage	550V
Nominal input voltage	360V
MPPT working voltage range	80V-500V
Number of independent MPPT/strings per MPPT	2/1
MPPT max. current	20A/20A
Start-up voltage	100V

**Output/Input AC (Grid side)**

Nominal apparent power	6kW
Max. apparent power	6.6kVA
Nominal voltage	220V/230V
Nominal frequency	50Hz/60Hz
Rated current	27.3A/26A
Max. current	30A
Power factor	-0.8-+0.8 (adjustable)
THDi	<3%(Nominal Output)
Grid system pattern	L+N+PE
Max. AC current from utility grid	50A

**Output AC (Back-up)**

Nominal output power	6kW
Max. output apparent power	6.6kVA
Nominal output voltage	220V/230V
Nominal output frequency	50Hz/60Hz
Output THDV	<3%
Automatic switch time	<10ms

**Battery**

Battery type	Li-ion/Lead-acid
Battery voltage range	40V-60V
Max. charging/discharging current	100A
Charging strategy for Li-ion battery	Self-adaption to BMS

**Efficiency**

Max. MPPT efficiency	99.9%
Europe efficiency	97.5%
Max. battery to load efficiency	94%

**Protection**

Anti islanding protection	Yes
Insulation impedance protection	Yes
RCD detection	Yes
PV reverse polarity protection	Yes
Output over voltage protection	Yes
Output over current protection	Yes

**General Data**

Dimensions(L/W/H)in mm	375/250/363
Weight	20kg
Operation temperature range	-25°C~60°C
Heat dissipation mode	Natural
IP Class	IP 66
Maximum altitude	4000m
Self-Consumption night	<3W

**Features**

LCD display	Yes
Communication interface	WiFi/4G/USB/CAN/RS485

Standards EN 62109/EN 62477/EN IEC 61000/CEI 0-21/NTS-631/RD647/UNE 217001/UNE 217002/VDE 4105/IEC 61727/IEC 62116/IEC 61683/EN 50549/G98/G99/NRS 097/UTE C 15/VDE V 0126