



Single-phase Hybrid Inverter

RZE-HY12-SL



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



Compatibility with lead-acid and Li-ion batteries, supports various brands of lithium



Color touch screen (4.3/7" optional).



Supports PV array input up to 160% of rated inverter power.



Integrated O-export function.



Low startup voltage threshold, wide operating voltage range.





Technical Data	RZE-HV12-SL
Input DC (PV side)	
Max. PV access power	24kW
Max. PV input power	19.2kW
Max. PV input voltage	600V
Nominal input voltage	360V
MPPT working voltage range	80V-500V
Number of independent MPPT/strings per MPPT	4/1
MPPT max. current	4*20A
Start-up voltage	100V
Output/Input AC (Grid side)	
Nominal apparent power	12kW
Max. apparent power	13.2kVA
Nominal voltage	220V/230V
Nominal frequency	50Hz/60Hz
Rated current	54.5A/52.2A
Max. current	60A
Power factor	-0.8~+0.8(adjustable)
THDi	<3%(Nominal Output)
Grid system pattern	L+N+PE
Max. AC current from utility grid	100A
Output AC (Back-up)	
Nominal output power	12kW
Max. output apparent power	13.2kVA
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	240A
Charging strategy for Li-ion battery	Self-adaption to BMS
Charging strategy for Lead - acid battery	Three -stage
Efficiency	
Max. MPPT efficiency	99.9%
Europe efficiency	97.5%
Max. battery to load efficiency	94.5%
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	425/290/660
Weight	39kg
Operation temperature range	-25 °C ~+60 °C
Heat dissipation mode	Smart cooling
IP Class	IP 66
Maximum altitude	4000m
Self-Consumption night	<3W
Topology	Transformerless
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

