EU STANDARD 220V
IP65 THREE PHASE SOLAR INVERTER

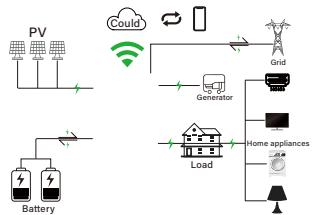
15KW Features

- Two MPPT channels, with 2 strings per channel; 30A input current per MPPT
- 48V low-voltage battery with built-in transformer for safe isolation
- Supports three-phase unbalanced output
- Maximum charge/discharge current of 290A
- 6 configurable charge/discharge time periods



Pure sine wave | BMS Lithium Battery Activation | WiFi optional | High Efficiency | MPPT | Anti-shock Design Safety | Output Multiple Priority | Smart battery charging design | DUSTPROOF

Connection Overview



TECHNICAL PARAMETER

Model	HF15K0-48MH
AC Input	
Max. PV Input Power (kW)	22.5KW
Max. PV Open Circuit Voltage (V)	1000V
MPPT Range@Operating Voltage (VDC)	120-950VDC
Full Power MPPT Voltage Range (VDC)	380-850VDC
Start-up Voltage (VDC)	120VDC
Nominal Input Voltage (V)	760V
Max. Input Current per MPPT (A)	30/30A
Max. Short-circuit Current (A)	36/36A
MPPT Tracker/Strings	2
PV Strings per MPPT Tracker	2/2
AC Output(On-Grid)	
Nominal Output Apparent Power to Grid (kVA)	15kVA
Max. Apparent Power to Grid (kVA)	16.5kVA
Max. Output Current to Grid (A)	23.9A
Nominal Apparent Power from Grid (kVA)	15kVA
Max. Apparent Power from Grid (kVA)	24kVA
Max. Current from Grid (A)	34.7A
Nominal Voltage (V) /Frequency (Hz)	220/380, 230/400, 240/415, 50/60, L1/L2/L3+N+PE
Adjustable Power Factor	0.8leading-0.8lagging
THDi	<3%
AC Output(Backup)	
Nominal Output Power (kW)	15KW
Max. Apparent Power (kVA)	16.5kVA
Max. Output Current (A)	23.9A
Nominal Voltage (V)/Frequency (Hz)	220/380, 230/400, 240/415, 50/60, L1/L2/L3+N+PE
Automatic Switch Time (ms)	<10
THDu	<2%
Overload Capacity	110%, long term / 150%, 3min / 180%, 2min / 200%, 10s
Battery	
Battery Voltage Range (V)	40-60V
Max. Charging/Discharging Current (A)	290 / 290A
Max. Charging/Discharging Power (kW)	15 / 16KW
Battery Type	Lithium / Lead-acid
Efficiency	
Max. Efficiency	97.30%
Europe Efficiency	97.00%
Max. Battery Charge/Discharge Efficiency	94.10%
Protection	
DC Switch	Yes
DC Reverse Polarity Protection (PV)	Yes
DC/AC Surge Protection	Type II / Type II
AC Overvoltage Protection	Yes
AC Overcurrent Protection	Yes
AC Short-circuit Protection	Yes
Anti-islanding Protection	Yes
Residual-current Monitoring	Yes
Insulation Resistance Monitoring	Yes
General Data	
HMI	Touch LCD &APP
BMS	RS485 /CAN
CT/Meter	Included / RS485
Communication	RS485, WiFi / Ethernet, USB
Ingress Protection	IP65
Operating Temperature Range (°C)	-25-60
Relative Humidity	0~100% (Non-condensing)
Max. Operating Altitude (m)	4000 (Derating above 2000)
Cooling	Intelligent Air Cooling
Topology	Transformerless
Dimensions (H*W*D, mm)	650*478*246mm (without terminal and bracket)
Net Weight (kg)	43kg
Self-consumption (W)	<20