



VOLTAS

HYD-8/10/12K-H6

SINGLE PHASE HYBRID INVERTERS



PRODUCT FEATURES

- 7 inch touch color LCD display
- IP66 Waterproof design
- Support for lead-acid, lithium batteries
- Support the diesel generator and the grid access at the same time
- 5-year standard warranty.
- Up to 7 Intelligent working modes, support remote monitoring on APP/Web
- One machine for multiple purposes: On-grid+ Energy Storage +Off-grid
- Wide DC working voltage range, 4 MPPT design, adapt to multi-angle and multi-orientation PV panels
- Inverter can also work with a single input source which is the PV (Solar Panel)

MODEL	HYD-8K	HYD-10K	HYD-12K
PV String Input Data			
Max. DC input power	12kW	15 kW	18 kW
Max. DC input voltage		600V	
Nominal input voltage		300V	
MPPT working voltage range		90V-500V	
Number of independent MPPT / strings per MPPT		4 / 1	
MPPT max. current		4*20A	
Start-up voltage		100V	
AC Output/Input Data (On-grid)			
Nominal output apparent power	8kW	10kW	12kW
Max. output apparent power	8.8kWV	11kVA	13.2kVA
Nominal output voltage		230V(180V-280V)	
Nominal output frequency		50Hz/60 Hz	
Rated output current	35A	43.5A	52.5A
Max. output current	38.5A	48A	57.5A
Power factor		-0.8 +0.8 (adjustable)	
THDI		<3% (Nominal Output)	
Grid system pattern		L+N+PE	
Max.apparent power from utility grid	16kVA	20kVA	24kVA
Max.AC current from utility grid	84A	106A	120A
Back-up Output Data (UPS)			
Nominal output apparent power	8kWH	10kWH	12kWH
Max. output apparent power	8.8kVA	11kVA	13.2kVA
Nominal output voltage		208V, 220V, 230V, 240V	
Nominal output frequency		50Hz/60 Hz	
Output THDV		<3%	
Automatic switch time		<10 ms	
Battery Input Data			
Battery type		Li-Ion/Lead-acid	
Battery voltage range		40V-60V	
Max. charging/discharging current		200A	
Charging strategy for Li-Ion battery		Self-adaption to BMS	
Charging strategy for Lead-acid battery		Three-stage	
Efficiency			
Max. efficiency		98%	
Europe efficiency		97.5%	
Max. battery to load efficiency		94.4%	
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		IP66	
Maximum altitude		4000 m	
Self-Consumption night		<3w	
Topology		Transformerless	
Features			
LED Display		Yes	
Communication Interface		Yes 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/VDEV 0126		