



VOLTAS

HYD-15K-20K-H6

THREE 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, 2 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-15K-H6		HYD-20K-H6	
PV String Input Data				
Max. DC input power	30kW		40 kW	
Max. DC input voltage	1000V			
Nominal input voltage	600V			
MPPT working voltage range	180V-850V			
Number of independent MPPT / strings per MPPT	2 / 2			
MPPT max. current	2*36A			
Start-up voltage	200V			
AC Output/Input Data (On-grid)				
Nominal output apparent power	15kW		20kW	
Max. output apparent power	17.5kVA		22kVA	
Nominal output voltage	400V±20%			
Nominal ouput frequency	50Hz/60 Hz			
Rated output current	21.8A		29A	
Max. output current	24A		32A	
Power factor	-0.8 +0.8 (adjustable)			
THDI	<3% (Nominal Output)			
Grid system pattern	3L+N+PE			
Max.apparent power from utility grid	30kVA		40kVA	
Max.AC current from utility grid	48A		64A	
Back-up Output Data (UPS)				
Nominal output apparent power	15kVA		20kVA	
Max. output apparent power	16.5kVA		22kVA	
Nominal output voltage	400V±20%			
Nominal ouput 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	300A		400A	
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	425/290/710			
Weight	45kg			
Operation temperature range	-25℃ ~ ± 60℃			
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	IEC 62109-1/IEC 62109-2/EN IEC 61000-6-1/EN IEC 61000-6-3/CEI 0-27 VDE AR4105/VDE V 0124-100/NC RfG/PSE/PTPIREE/EN50549/NRS 097			

* Product specifications are subject to change without prior notice for continuous improvement