



MAXPOWER

HYD-6K-H8

SINGLE PHASE HYBRID INVERTER

PRODUCT FEATURES

- Wide MPPT Range
- Type 2 SPD on DC/AC
- Max 3 Inverters in Parallel
- Lithium & Lead Acid Battery Supported
- IP66 Protection
- Max PV Input 9KW
- Touch LED Display
- 2 MPPT Trackers
- Integrated and Concise
- Support Generator and Smart Loads
- 19A MPPT Input Current Per String
- Max PV Open Circuit Voltage 550(V)

MODEL		HYD 6K-H8		
PV Input				
Max. PV Input Power(kW)		9		
Max. PV Open Circuit Voltage(V)		550		
MPPT Range@ Operating Voltage (VDC)		80 - 520		
Full Power MPPT Voltage Range (VDC)		250 - 500 V		
Start-up Voltage (VDC)		90		
Max. Input Current per MPPT(A)		19/19		
Max. Short-circuit Current(A)		25/25		
MPPT Trackers/Strings per Tracker		2/1		
Nominal Input Voltage (V)		360		
AC Output (On-Grid)				
Nominal Output Power to Grid (kW)		6		
Max. Apparent Power to Grid (kVA)		6		
Max. Apparent Power from Grid (kVA)		6		
Max. Apparent Current from Grid (A)		26.1		
Nominal Output Current from Grid(A)		26.1		
Max. Output Current to Grid (A)		26.1		
Nominal Voltage/Frequency		230V(176V-280V), 50/60Hz, L+N+PE		
Adjustable Power Factor		0.8leading-0.8 lagging		
THDI		<2%		
AC Output (Back Up)				
Nominal Output Power(kW)		6		
Max. Apparent Power(kVA)		6		
Nominal Output Current (A)		26.1		
Max. Output Current(A)		26.1		
Nominal Voltage/Frequency		230V(176V-238V), 50/60Hz, L+N+PE		
Automatic Switch Time(ms)		<20		
THDu		<2%		
Overload Capacity		110%, 10s/ 150%, 5s / 180%, 1s / 200%, 100ms		
Efficiency				
Max. efficiency		96.65%		
Euro efficiency		97.50%		
MPPT Efficiency		99.00%		
Max. Battery Charge/Discharge Efficiency		94.60%		
Battery				
Battery Voltage Range (V)		40 - 60		
Recommended Battery Voltage (V)		48		
Max. Charging Voltage(V)		60		
Max. Charging/Discharging Current (A)		120 / 120		
Battery Type		Lithium ion and Lead Acid Battery		
Protection				
DC Switch		Yes		
DC Reverse Polarity Protection		Yes		
DC/AC Surge Protection		Type II / Type II		
AC Overvoltage Protection / AC Short-circuit Protection / Ground Fault Monitoring / Anti-islanding Protection / Residual-current Monitoring / Insulation Resistance Monitoring Peak/Valley Time Setting		Yes		
Standard Compliance				
Safety Regulation		IEC/EN 62109-1/-2		
EMC		IEC/EN61000-6-1/-2/-3 /- 4		
Grid Regulation		IEC61727; IEC62116; Europe: EN50549; Belgium: C10/11; Spain: UNE217002; Italy: CEI 021; South Africa: NRS 097		
General Data				
HMI	BMS	EMS / Meter	Communication	Max. Operating Altitude
Touch LCD & APP	RS485; CAN	RS485	WiFi / LAN	4000m(Derating above 3000m)
Cooling	Noise Emission	Dimensions (W*H*D)		Net Weight
Natural	≤ 29dB	485*525*205 mm (without terminal and bracket)		24
Ingress Protection		Operating Temperature Range		Relative Humidity
IP66		-25 - 60℃		0-95% (Non-condensing)

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