9 Datasheet

- The following parameters may change without notice，please refer to the user manual and Datasheet on our website.

Model	HYD-10K-LS1	HYD-12K-LS1
Battery Parameters		
Battery type	Lead-acid or Lithium-ion	
Number of Battery Input Channels	1	
Battery voltage range	40-60 Vd.c.	
Max charging power	10000 W	
Max. Discharging Power	10000W	
Maximum charging current	210 A	250 A
Maximum discharging current	210 A	250 A
BMS Communication	RS-485/CAN	
PV Input		
Recommended Max. PV input power (Wp)	20kWp	24kWp
Max. input voltage	550 Vd.c.	
Rated input voltage	360 Vd.c.	
Start-up voltage	90 Vd.c.	
MPPT full load voltage range	200-450 Vd.c.	
MPPT voltage range	60-500 Vd.c.	
Number of MPPT	2	
Max. Number of Input Strings per MPPT	2/2	
Max. Input Current	40/40 A	
Max. Isc	50/50 A	
AC Grid		
Rated Output Power	10kW	12kW
Rated Output Current	45.5/43.5/41.7 A	54.5/52.2/50 A
Rated Apparent Power	10kVA	12 kVA

Model	HYD-10K-LS1	HYD-12K-LS1
Max. Apparent Power	11kVA	13.2 kVA
Max. Output Current	50.0/47.8/45.8 A	60.0/57.4/55 A
Max. Input Current	50 A	60A
Rated Output Voltage	L+N+PE,220/230/240 Va.c.	
Rated Output Frequency	50/60 Hz	
Power Factor Range	0.8 lagging-0.8 leading	
THDi	<3%	
AC Backup		
Rated Output Power	10kW	12kW
Rated Output Current	45.5/43.5/41.7A	54.5/52.2/50 A
Rated Apparent Power	10kVA	12 kVA
Max. Apparent power	11kVA	13.2 kVA
Max. output current	50.0/47.8/45.8 A	60.0/57.4/55 A
Peak Output Apparent Power	2 times of rated power, 10s	
Rated Output Voltage	L+N+PE,220/230/240 Va.c.	
Rated Output Frequency	50/60 Hz	
THDv (@Liner load)	<3%	
Switch time	4ms(default)	
Efficiency And Protection		
Max. MPPT Efficiency	99.90%	
European Efficiency	96.50%	
Max. Efficiency	97.50%	
Max. Efficiency of Charging/Discharging	94.00%	
DC Switch	Yes	
PV Reverse Connection Protection	Yes	
Output Short Circuit Protection	Yes	
Output Over current Protection	Yes	
Output Overvoltage Protection	Yes	

Model	HYD-10K-LS1	HYD-12K-LS1
Insulation Impedance Detection	Yes	
Residual Current Detection	Yes	
Anti-island Protection	Yes	
Surge Protect-ion	PV: Type II, AC: Type II	
General Data		
Dimensions(W*H*D)	410*620*270 mm	
Weight	30 kg	
Inverter Topology	Non-Isolation	
Protective Class	Class I	
Standby Self consumption	<15 W	
Operating Temperature Range	-30℃ to +60℃ (derating above +50℃)	
Relative Humidity Range	5%~95%	
Max. Operating Altitude	4000 m (derating above 2000 m)	
Cooling Mode	Intelligent Airflow	
IP Rating	IP66	
Overvoltage Category	AC III, DC II	
Installation Method	Wall Mounted	
Display	LCD and APP	
Communication	RS485, Optional: Wi-Fi/4G/LAN	

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