

FH (8-10)KW-US

Split-Phase Low Voltage Residential Hybrid Inverter

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Support Max. 16pcs Parallel



Support Remotely Change Settings



IP65 Protection Degree



Colorful Touch LCD



Max. charging/Discharging Current of 190A



Support Diesel Generator Connection



MODEL	RH5K-1PLVG1-US	FH 6K-1PLVG1-US	FH 7K-1PLVG1-US	FH 8K-1PLVG1-US	FH 9K-1PLVG1-US	FH 10K-1PLVG1-US
Battery Input Data						
Battery Type	Lithium-ion					
Max. Battery Charging/Discharging Power (W)	5500W	6600W	7700W	8800W	8800W	8800W
Battery Voltage Range (V)	48V (40~60V)					
Max. Charging Current (A)	130A	140A	160A	190A	190A	190A
Max. Discharging Current (A)	130A	140A	160A	190A	190A	190A
Charging Curve	3 Stages / Equalization					
External Temperature Sensor	Optional					
Charging Strategy for Li-Ion Battery	Self-adaption to BMS					
PV String Input Data						
Max. DC Input Power (W)	6500W	7800W	9100W	10400W	11700W	12500W
PV Input Voltage (V)	370V (100V~500V)					
MPPT Range (V)	125V~425V					
Full Load DC Voltage Range (V)	280V~425V					
Start-up Voltage (V)	150V					
PV Input Current (A)	15A+15A				15A+15A+15A	
Isc PV (absolute Max.) (A)	17A+17A				17A+17A+17A	
No. of MPPT Trackers	2				3	
No. of Strings Per MPPT Tracker			1			
AC Output Data						
Rated AC Output and UPS Power (W)	5000W	6000W	7000W	8000W	9000W	10000W
Max. AC Output Power (W)	5500W	6600W	7700W	8800W	9500W	10000W
Peak Power (off grid)	2 times of rated power, 10 S					
AC Output Rated Current (A)	21A	25.0A	29.3A	33.3A	37.5A	41.7A
Max. AC Current (A)	23A	27.5A	32.2A	36.6A	41.4A	41.7A
Max. Continuous AC Passthrough (A)	33A	40A	47A	53A	60A	67A
Output Frequency and Voltage	50 / 60Hz; 120 / 240Vac (split phase), 208Vac (2 / 3 phase)					
Grid Type	Split phase; 2 / 3 phase					
Current Harmonic Distortion	THD<3% (Linear load<1.5%)					
Efficiency						
Max. Efficiency	97.00%					
Euro Efficiency	96.50%					
MPPT Efficiency	99.90%					
Protection						
PV Input Lightning Protection	Integrated					
Anti-islanding Protection	Integrated					
PV String Input Reverse Polarity Protection	Integrated					
PV Arc Fault Detection	Integrated					
PV Rapid Shutdown Control	Integrated					
Insulation Resistor Detection	Integrated					
Residual Current Monitoring Unit	Integrated					
Output Over Current Protection	Integrated					
Output Shorted Protection	Integrated					
Output Over Voltage Protection	Integrated					
Surge protection	DC Type II / AC Type II					
Certifications and Standards						
Grid Regulation	UL1741, IEEE1547, RULE21,					
Safety Regulation	UL1741					
EMC	FCC 15 class B					
General Data						
Protective class	Class I					
Operating Temperature Range (°C)	-25~60°C, >45 °C Derating					
Cooling	FAN					
Noise (dB)	<40 dB					
Communication with BMS	RS485; CAN					
Weight (kg)	42					
Size (mm)	425W×645H×238D					
Protection Degree	IP65/NEMA 6					
Installation Style	Wall-mounted					
Warranty	5 years					

