

Single Phase 5~12kW Hybrid Inverter

EP-5~12K-HSL



- LED display, touch button design, direct data view
- Maximum efficiency 97.6%, more power generation
- 14A string current, suitable for high current high efficiency module applications
- 130% DC over configuration, 110% AC overload output; Wide DC voltage range
- IP65 protection, built-in SPD protection for safety and reliability
- Intelligent remote monitoring
- Support anti-backflow function



Technical Data	EP-5K-HSL	EP-6K-HSL	EP-8K-HSL	EP-10K-HSL	EP-12K-HSL
PV String Input Data					
Max. DC input power	7.5kW	9kW	12kW	15kW	18kW
Max. DC input voltage	550V				
Nominal input voltage	360V				
MPPT working voltage range	90V-550V				
Number of independent MPPT/strings per MPPT	2/1	2/1	4/1	4/1	4/1
MPPT max. current	20A*2	20A*2	20A*4	20A*4	20A*4
Start-up voltage	100V				
AC Output/Input Data (On-grid)					
Nominal output apparent power	5kW	6kW	8kW	10kW	12kW
Max. output apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Nominal output voltage	120V/240V(Split phase), 208V(2/3phase), 230V(Single phase)				
Nominal output frequency	50Hz/60Hz±0.2%				
Rated output current	20.8/21.7A	25/26A	33/34.7A	41.6/43.4A	50/52A
Max. output current	26A	32A	42A	53A	60A
Power factor	-0.8~+0.8(adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	Split phase,2/3 phase, Single phase				
Max.apparent power from utility grid	11kVA	12kVA	16kVA	20kVA	24kVA
Max.AC current from utility grid	52A	64A	84A	106A	120A
Back-up Output Data (UPS)					
Nominal output apparent power	5kVA	6kVA	8kVA	10kVA	12kVA
Max output apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Nominal output voltage	120V/240V(Split phase), 208V(2/3phase), 230V(Single phase)				
Nominal output frequency	50Hz/60Hz±0.2%				
Output THDV	<3%				
Automatic switch time	<10ms				
Battery Input Data					
Battery type	Li-Ion/Lead-acid				
Battery voltage range	40V-60V				
Max. charging/discharging current	100A	120A	160A	200A	240A
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	98%				
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	425/280/660				
Weight	35kg				
Operation temperature range	-25°C~+60°C				
Heat dissipation mode	Smart cooling				
IP Class	IP 65				
Maximum altitude	3000m				
Self-Consumption night	<3w				
Topology	Transformerless				
Features					
LCD display	Yes				
Communication interface	WiFi/4G/USB/CAN/RS485				
Standards	UL 1741,CSA C22.2,UL 1699B, UL 1741SB,IEEE1547:2018,RULE21,FCC Part 15 Class B				