

KE Series

American standard
Split-Phase Hybrid Inverter



KE-10KLSUN

- ⦿ Supports up to 15 parallel machines, off - grid operation, and supports multiple battery parallel connections
- ⦿ Dual - path MPPT with an efficiency of up to 99.9%
- ⦿ Supports deep customization
- ⦿ BMS communication protocol is open

Product Parameters

Model	KE-8KLSUN	KE-10KLSUN	KE-12KLSUN
Battery Input Data			
Battery Type	Lead-acid or Li-Ion		
Battery Voltage Range (V)	40-60V		
Maximum Charging Current (A)	190A	210A	230A
Maximum Discharging Current (A)	190A	210A	230A
External Temperature Sensor	YES		
Charging Curve	120 Vac, single-phase / 240 Vac, split-phase		
Lithium Battery Charging Strategy	Self-adaption to BMS		
Photovoltaic Input Data			
Maximum DC Input Power (W)	10400W	13000W	15600W
Rated Photovoltaic Input Voltage (V)	370 (125-500)V		
Start - up Voltage (V)	125V		
MPPT Voltage Range (V)	150-425V		
Full - load DC Voltage Range (V)	200-425V		
Photovoltaic Input Current (A)	26+26A		
Maximum Photovoltaic Short - circuit Current	44+44A		
Maximum Number of MPPT Trackers	2		
Number of Photovoltaic Strings per MPPT Tracker	2		
AC Output Data			
Rated AC Output and UPS Power (W)	8000W	10000W	12000W
Maximum AC Output Power (W)	8800W	11000W	13200W
Rated AC Output Current (A)	36.7 42.3A 40/38.3A		
Maximum AC Current (A)	33.3/38.5A 36.4/34.5A		
Maximum Continuous AC Bypass Current (A)	50A		
Peak Power (Off - grid)	2 time of rated power, 10 S		
Power Factor	0.8 leading to 0.8 lagging		
Output Frequency and Voltage	50 / 60Hz; L1/L2/N(PE) 120/240Vac (split phase), 208Vac (2/3 phase), L/N/PE 220/230Vac (single phase)		
Grid Type	Split phase; 2/3 phase; Single Phase		
DC Injection Current (mA)	THD<3% (Linear load<1.5%)		
Efficiency			
Maximum Efficiency	97.60%		
European Efficiency	97.00%		
MPPT Efficiency	99.90%		
General Data			
Operating Temperature Range (°C)	-40-60 C, >45 C derating		
Cooling Method	Natural cooling		
Noise (dB)	<30 dB		
Communication with Battery Management System (BMS)	RS485; CAN		
Weight	32		
Dimensions (mm)	420W×670H×233D		
Protection Level	IP65		
Installation Method	Wall-mounted		
Warranty	5 years		