

# KE Series

American standard  
Split-Phase Hybrid Inverter



## KE-5KLSUN

- ⊙ 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-5KLSUN	KE-6KLSUN
<b>Battery Input Data</b>		
Battery Type	Lead-acid or Li-Ion	
Battery Voltage Range (V)	40-60V	
Maximum Charging Current (A)	120A	135A
Maximum Discharging Current (A)	120A	135A
External Temperature Sensor	YES	
Charging Curve	120 Vac, single-phase / 240 Vac, split-phase	
Lithium Battery Charging Strategy	Self-adaption to BMS	
<b>Photovoltaic Input Data</b>		
Maximum DC Input Power (W)	6500W	7800W
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)	300-425V	200-425V
Photovoltaic Input Current (A)	13+13A	26+13A
Maximum Photovoltaic Short - circuit Current	22+22A	44+22A
Maximum Number of MPPT Trackers	2	
Number of Photovoltaic Strings per MPPT Tracker	1	2+1
<b>AC Output Data</b>		
Rated AC Output and UPS Power (W)	5000W	6000W
Maximum AC Output Power (W)	5500W	6600W
Rated AC Output Current (A)	22.9/26.4A	27.5/31.7A
Maximum AC Current (A)	20.8/24A	25/28.8A
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%)	
<b>Efficiency</b>		
Maximum Efficiency	97.60%	
European Efficiency	97.00%	
MPPT Efficiency	99.90%	
<b>General Data</b>		
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 (kg)	32	
Dimensions (mm)	420W×670H×233D	
Protection Level	IP65	
Installation Method	Wall-mounted	
Warranty	5 years	