



KE-7KD5LSUN

- Enhanced insulation resistance testing technology
- Compatible with Virtual Power Plant (VPP) Technology
- Certified to UL1741, Rule 21, UL991, and UL1998 Standards
- MPPT tracking efficiency up to 99%
- Support deep customization
- IP66 protection degree
- AFCI & RSD

Split-Phase Hybrid Inverter Technical Data

Model	KE-5KD5LSUN	KE-6KD5LSUN	KE-7KD5LSUN	KE-7K5D5LSUN	KE-8KD5LSUN	KE-10KD5LSUN	KE-12KD5LSUN
Parallel Mode							
No. of Parallel Machines Allowed (Unit)	10						
AC Input/Output Data							
Rated AC Input/Output Active Power (W)	5000	6000	7000	7500	8000	10000	12000
Rated AC Input Apparent Power (VA)	5500	6600	7700	8250	8800	11000	13200
Rated AC Input/Output Current (A)	20.8	25.0	29.2	31.25	33.3	41.7	50
Max. AC Input/Output Current (A)	22.9	27.5	32.1	34.4	36.7	45.8	55
Max. Continuous AC Passthrough (grid to load) (A)	50			63			
Peak Power (off-grid) (A)	2 Times Of Rated Power, 10s						
Power Factor Adjustment Range	0.9-1						
Rated Input/Output Voltage/Range (V)	100~130/200~260 0.88Un < U < 1.1Un						
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65						
Grid Connection Form	2L+N+PE						
Total Current Harmonic Distortion THDi	<3%(Rated power)						
DC Current Output	<0.5% X Rated current						
Conversion Time (Bypass and inverter)	10ms						
Battery Input Data							
Battery Type	Lead-acid / Lithium Iron Phosphate Battery						
Max.Charging Current(A)	135		190			200	
Max.Discharging Current(A)	135		190			200	
Battery Voltage Range(V)	40-60						
Charging Strategy for Li-ion Battery	BMS adaptivity						
Number of Battery Input	1						
PV String Input Data							
No. of Circuits	2/1+1			2/2+2			
Max. PV Open-circuit Voltage (V)	550						
Start-up Voltage (V)	100						
Rated PV Input Voltage (V)	370						
MPPT Voltage Range (V)	125-425						
Max. PV Input Power (W)	7500	9000	10500	11250	12000	15000	18000
Max. Operating PV Input Current (A)	17+17			26+26			
Max. Input Short-Circuit Current (A)	28+28			44+44			
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	96.5%						
MPPT Efficiency	>99%						
Equipment Protection							
Integrated	DC polarity reverse connection protection, AC output overload protection, thermal protection, AC output overvoltage protection, AC output short circuit protection, DC component monitoring, overvoltage load drop protection, ground current monitoring, arc fault circuit interruption (optional), grid monitoring, islanding monitoring, ground fault monitoring, DC input switch, DC terminal impedance monitoring, residual current monitoring (RCD), surge protection						
General Data							
Ingress Protection (IP) Rating	IP66/TYPE4X						
Operating Temperature Range(°C)	-40~+ 60, >45°C Derating						
Permissible Ambient Humidity	0-100%						
Noise Level @ 1m	<30dB @ 25°C (77°F)						
Type of Cooling	Intelligent Air Cooling						
Communication Port	RS485/RS232/CAN/Wi-Fi/Bluetooth/4G						
Dimensions(HxWxD)	638×363×230mm (Excluding Connectors and Brackets)						
Weight	30kg						
Permissible Altitude	2000m						
Warranty	5 Years /10 Years						
Over Voltage Category	TYPE II(DC), TYPE II(AC)						
Certification							
Overview	UL 1741 3nd Edition (September 28, 2021), CSA-C22.2 No.107.1-16, UL991/UL1998 , CEC Efficiency , FCC SDOC Part 15B						

