Low-Voltage Three-phase Hybrid Inverter

For European Grid

KE-N Series

Models:

- KE-5KD5L3EN
- KE-6KD5L3EN
- KE-7K5D5L3EN
- KE-8KD5L3EN
- KE-10KD5L3EN
- KE-12KD5L3EN



Features

- Enhanced insulation resistance testing technology
- Compatible with Virtual Power Plant (VPP) Technology
- Support higher charge-discharge current
- Support diesel generator connection
- MPPT tracking efficiency up to 99%
- Easy installation
- Equipped with comprehensive safety protection from software to hardware

Datasheet

Model	KE-5KD5L3EN	KE-6KD5L3EN	KE-7K5D5L3EN	KE-8KD5L3EN	KE-10KD5L3EN	KE-12KD5L3EN
PV Input Data						
Max.PV Input Power (W)	10000	12000	14000	16000	20000	24000
Max.PV Input Voltage (V)	800					
Start-up Voltage (V)	150					
MPPT Voltage Range (V)	180-650					
Rated PV Input Voltage (V)	550					
Max.Operating PV Input Current (A)	17+17		26+26			
Max.Input Short-Circuit Current (A)	28+28		40+40			
Number of MPPT Trackers	2					
Max.Number of Input Strings	1+1		2+2			
Battery Parameters						
Battery Type	Lead-acid or Lithium Iron Phosphate Battery					
Rated Battery Voltage (V)	40~60					
Max.Charge/Discharge Current (A)	125	150	180	200	220	250
Parallel Operation Mode						
Max.Number of Parallel Units (pcs)	10					
AC Input/Output						
Rated Input/Output Active Power (W)	5000	6000	7500	8000	10000	12000
Rated Input Apparent Power (VA)	5500	6600	8250	8800	11000	13200
Rated Input/Output Current (A)	7.6/7.3	9.1/8.7	11.4/10.9	12.2/11.6	15.2/14.5	18.2/17.4
Max. Input/Output Current (A)	8.4/8	10/9.6	12.5/12	13.4/12.8	16.7/16	20/19.2
Peak Power (Off-Grid)	2 Times Of Rated Power, 10s					
Power Factor Adjustment Range	0.8 leading ~ 0.8 lagging					
Rated Voltage (V)	220/380; 230/400					
Frequency (Hz)	50（45-55）/60（55-65）					
Connection Type	3L/N/PE					
Total Current Harmonic Distortion (THDi)	<3%(Rated power)					
DC Current Output	<0.5% x Rated current					
Transfer Time (Bypass to Inverter) (ms)	10					
Efficiency						
Max. Efficiency	97.8%					
Euro Efficiency	97%					
MPPT Tracking Efficiency	99%					
Device Protection						
Integrated Protection	DC/Battery Reverse Polarity Protection, DC/AC Lightning Protection, AC Overcurrent/Short-Circuit Protection Insulation Impedance Monitoring, Ground Fault Monitoring, Grid Monitoring, String Monitoring, Anti-Islanding Protection					
Surge Protection Level	DC Type II / AC Type III					
General						
Ingress Protection (IP) Rating	IP66					
Operating Temperature Range	-40~60 ℃（>45℃ Derating）					
Humidity Range	0~100% RH（Non-condensing）					
Noise Level @ 1m	<45dB @ 25℃ (77°F)					
Type of Cooling	Natural cooling					
Communication Port	RS485/CAN; Option 1: Wi-Fi + Bluetooth, Option 2: 4G + Bluetooth					
Dimensions(HxWxD) (mm)	638x363x230					
Weight (kg)	58					
Operating Altitude(m)	<2000					
Warranty	5 Years /10 Years					
Certification						
Grid-Tie Standards	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002,OVE-Richtlinie R25, G99, VDE-AR-N 4105					
Safety / EMC Standards	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					