High-Voltage Three-Phase Hybrid Inverter

For European Grid

KE-N Series

Models:

- KE-15KD5H3EN
- KE-20KD5H3EN
- KE-25KD5H3EN
- KE-29K9D5H3EN
- KE-30KD5H3EN



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%
- Support 150V low voltage
- The AC-DC matching ratio can reach 2 times

Datasheet

Model	KE-15KD5H3EN	KE-20KD5H3EN	KE-25KD5H3EN	KE-29K9D5H3EN	KE-30KD5H3EN
PV Input Data					
Max.PV Input Power (W)	30000	40000	50000	59800	60000
Max.PV Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated PV Input Voltage (V)	600				
Max.Operating PV Input Current (A)	40				
Max.Input Short-Circuit Current (A)	65				
Number of MPPT Trackers	3				
Max.Number of Input Strings	2/2/2				
Battery Parameters					
Battery Type	Lithium Iron Phosphate Battery				
Rated Battery Voltage (V)	150~800				
Max.Charge/Discharge Current (A)	70*2				
Parallel Operation Mode					
Max.Number of Parallel Units (pcs)	10				
AC Input/Output					
Rated Input/Output Active Power (W)	15000	20000	25000	29900	30000
Rated Input Apparent Power (VA)	16500	22000	27500	32890	33000
Rated Input/Output Current (A)	22.7	30.3	37.88	45.3	45.5
Max. Input/Output Current (A)	25	33.3	41.7	49.8	50
Peak Power (Off-Grid)	1.6 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℉)				
Type of Cooling	Natural cooling				
Communication Port	RS485/CAN; Option 1: Wi-Fi + Bluetooth, Option 2: 4G + Bluetooth				
Dimensions(HxWxD) (mm)	770x690x320				
Weight (kg)	85				
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				