



Low-Voltage Three-phase Hybrid Inverter

- Support sodium-ion batteries
- 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
- Certified to CE-LVD 62109-1/-2,CE-EMC 61000-6-1/-3,RoHS,EN 50549, and VOC 62920 Standards

Low-Voltage Three-phase Hybrid Inverter Technical Data

KTECH

Model	KE-5KD5L3EN	KE-6KD5L3EN	KE-7KD5L3EN	KE-8KD5L3EN	KE-10KD5L3EN	KE-12KD5L3EN
PV Input Data						
Max.Connected Photovoltaic 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			44+44		
No.of MPP Trackers			2			
No.of Strings MPP Tracker	2			4		
Battery Input Data						
Battery Type			Lithium Iron Phosphate Battery			
Rated Battery Voltage (V)			40~60/27~66(Sodium-ion optional)			
Max.Charge/Discharge Current (A)	125	150	180	200	220	250
AC Output Data						
Rated AC Output Active Power (W)	5000	6000	7500	8000	10000	12000
Max.AC Output Apparent Power(VA)	5500	6600	8250	8800	11000	13200
Rated AC 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.AC Output Current(A)	8.4/8	10/9.6	12.5/12	13.4/12.8	16.7/16	20/19.2
Rated Output Voltage(V)			220/380; 230/400; 3L/N/PE			
Rated Input/Output Grid Frequency/Range(Hz)			50/60, +/-5			
Power Factor Adjustment Range			1(-0.8~0.8)			
AC Input Data						
Rated AC Input Current(A)			50			
Rated Input Voltage(V)			220/380; 230/400; 3L/N/PE			
Off-grid Output Parameters						
Rated Output Power (W)	5000	6000	7500	8000	10000	12000
Max.Output Power(W)			2 Times Of Rated Power, 10s			
Rated 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
Rated Input/Output Grid Frequency/Range(Hz)			50/60, +/-5			
Power Factor Adjustment Range			1(-0.8~0.8)			
Parallel Operation			Supported, up to 10 units			
Switching time (ms)			<10			
Total Voltage Harmonic Distortion Rate (THDv) [%](Linear load)			<3%(Rated power)			
Efficiency						
Max.Efficiency			97.8%			
Euro Efficiency			97%			
MPPT Efficiency			99%			
Max.Efficiency (Battery to AC)			97.6%			
Max.Efficiency (PV to Battery)			98.1%			
Dimensions(HxWxD)			702x450x280mm			
Equipment Protection						
DC/Battery Reverse Connection Protection			Integrated			
Insulation Impedance Monitoring			Integrated			
DC/AC Lightning Protection			Integrated			
AC Overcurrent/Short-circuit Protection			Integrated			
Ground Fault Monitoring			Integrated			
Power Network Monitoring			Integrated			
String Monitoring			Integrated			
Island Protection Monitoring			Integrated			
DC/AC Overvoltage			OVCII(DC), OVCIII(AC)			
AFCI(Arc Fault Circuit Interrupter)			Optional			
Ingress Protection (IP) Rating			IP66			

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