



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



Model	KE-5KD5L3EN	KE-6KD5L3EN	KE-7K5D5L3EN	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	OVCI(DC),OVCI(AC)					
AFCI(Arc Fault Circuit Interrupter)	Optional					
Ingress Protection (IP) Rating	IP66					

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