KTECH®



KE-6KD5L1EN

- Supports up to 10 units in parallel
- Supports diesel generator connection
- Supports charge and discharge settings for 6 time periods
- MPPT tracking efficiency up to 99%
- Supports lead-acid / lithium battery connection
- Supports WiFi / Bluetooth / 4G communication
- Ingress Protection(IP)Rating:IP65

Single-Phase Hybrid Inverter Technical Parameters For European Grid

Model	KE-3KD5LETN	KE-3KD5L1EN	KE-3K6D5L1EN	KE-5KD5L1EN	KE-6KD5L1EN	KE-8KD5L1EN
Parallel Operation Mode						
Max. Number of Parallel(Units)	10					
AC Input/Output						
Rated Input/Output Active Power (W)	3000	3000	3600	5000	6000	8000
Rated Input Apparent Power (VA)	3300	3300	3960	5500	6600	8800
Rated Input/Output Current (A)	13.7/13.1	13.7/13.1	16.4/15.7	22.8/21.8	27.3/26.1	36.4/34.8
Max. Input/Output Current (A)	15/14.4	15/14.4	18/17.3	25/24	30/28.7	40/38.3
Max. Bypass Current (Grid to Load) (A)	45					50
Peak Power (Off-Grid)	2 Times Of Rated Power, 10s					
Power Factor Adjustment Range	0.8 leading ~ 0.8 lagging					
Rated Voltage (V)	230, 0.85Un < U < 1.1Un					
Frequency (Hz)	50/45-55, 60/55-65					
Connection Type	L+N+PE					
Total Current Harmonic Distortion (THDi)	<3% (Rated power)					
DC Current Output	<0.5% X Rated current					
Transfer Time (Bypass and Inverter) (ms)	10					
Battery Parameters						
Battery Type	Lead-acid or Lithium Iron Phosphate Battery					
Max. Charge Current (Configurable) (A)	140	70	90	120	135	160
Max. Discharge Current (A)	140	70	90	120	135	160
Rated Battery Voltage (V)	24	48				
Charging Voltage Range (V)	20-30	40-60				
Lithium-ion Battery Charging Strategy	BMS Adaptive					
Battery Input Ports	1					
Solar Charging						
Number of Circuits	2/1+1					
Max. PV Open-Circuit Voltage(V)	550					
Start-up Voltage (V)	100					
Rated PV Voltage (V)	370					
MPPT Voltage Range (V)	125-475					
Max. PV Input Power (W)	4800	4800	5760	8000	9600	12800
Max. PV Input Current (A)	18+18					
Max. PV Input Short-Circuit Current (A)	27+27					
Efficiency						
Max. Efficiency	97.6%					
Euro Efficiency	96.5%					
MPPT Tracking Efficiency	99%					
Device Protection						
Integrated Protection	Over-temperature protection, overload protection, short-circuit protection, PV overvoltage protection, PV overcurrent protection, battery overvoltage protection, leakage current protection, anti-islanding protection, ground fault detection protection, surge protection, GFCI					
Surge Protection Level	DC Type II / AC Type III					
General						
Ingress Protection (IP) Rating	IP65					
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					Natural Cooling + Intelligent Air Cooling
Communication Port	RS485/CAN; Option 1: WIFI+ Bluetooth, Option 2: 4G + Bluetooth					
Dimensions(HxWxD)(mm)	493×400×150 (Excluding connectors and mounting brackets)					
Weight (kg)	20					
Operating Altitude (m)	<2000					
Warranty	5 Years/10Years					
Certification						
Overview	CE-LVD EN IEC 62109-1/-2,CE-EMC EN IEC 61000-6-1/-3 ,RoHS ,VOC IEC 62920 , EN 50549					

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