



KE-6KD5L1EF

- Supports up to 6 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:IP66

IP66 Off-Grid Inverter Technical Parameters For European Grid

Model	KE-3KD5LETF	KE-3KD5L1EF	KE-3K6D5L1EF	KE-5KD5L1EF	KE-6KD5L1EF
Parallel Operation Mode					
Max. Number of Parallel(Units)	6				
AC Input/Output					
Rated Input/Output Active Power (W)	3000	3000	3600	5000	6000
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
Max. Bypass Current (Grid to Load) (A)	45				
Peak Power	2 Times Of Rated Power, 10s				
Rated Voltage (V)	220/230				
Frequency (Hz)	50/45-55, 60/55-65				
Connection Type	L+N+PE				
Total Voltage Total Harmonic Distortion (THDv)	<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)	125	62.5	75	105	125
Max. Discharge Current (A)	125	62.5	75	105	125
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
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	IP66				
Operating Temperature Range	-40~60 °C (>45°C Derating)				
Humidity Range	0~100% RH (Non-condensing)				
Noise Level @ 1m	<45dB @ 25°C (77°F)				
Type of Cooling	Natural 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	EN 62109-1:2010; EN 62109-2:2011; EN IEC 61326-1:2021;RoHS				

Web: www.ktechsolar.com

Email: info@ktechsolar.com

