



## Single-Phase Off-Grid Inverter



- Max.6 pcs parallel
- MPPT tracking efficiency up to 99%
- Easy installation
- Comprehensive safety protection from software to hardware

# Single-Phase Off-Grid Inverter Technical Data

**KTECH®**

Model	KE-5KC5L1EF	KE-6KC5L1EF	KE-8KC5L1EF	KE-10KC5L1EF	KE-12KC5L1EF			
<b>Inverter Output</b>								
Rated Output Power	5000W	6000W	8000W	10000W	12000W			
Max Peak Power	10000W	12000W	16000W	20000W	24000W			
Rated Output Voltage	230V, Single-phase / Parallel Operation For Three-phase							
Rated Frequency	50/60Hz							
Output Waveform	Pure Sine Wave							
Switching Time	Typical Value: 10ms, Max Value For Single Machine: 20ms, Max Value For Parallel Machines: 30ms							
Number Of Parallel Units	6							
<b>Battery</b>								
Battery Type	Lead-acid / Lithium Iron Phosphate Battery							
Rated Battery Voltage	48V							
Voltage Range	40~60V							
Max Solar Charging Current	120A	120A	180A	200A	200A			
Max Mains/Generator Charging Current	100A	100A	100A	100A	100A			
Max Hybrid Charging Current	120A	120A	180A	200A	200A			
<b>PV Input</b>								
Number of MPPT Routes	1		2					
Max Input Power	7500W	9000W	7,500W+7,500W		9,000W+9,000W			
Max Input Current	27A		22A+22A					
Max Open-circuit Voltage	500V		500V+500V					
Mppt Operating Voltage Range	125~425V							
<b>Mains Power &amp; Generator Input</b>								
Input Voltage Range	170~280V±7V(UPS); 90~280V±7V(APL)							
Input Frequency Range	50/60Hz							
Bypass Overload Current	63A							
<b>Efficiency</b>								
MPPT Efficiency	99%							
Max Efficiency Of Battery Inversion	93%							
<b>General</b>								
Dimensions (HxWxD)	472 x 355 x 130 mm		620 x 450 x 142 mm					
Weight	14.5kg		23.5kg					
Ingress Protection (IP) Rating	IP20/IP54							
Operating Temperature Range	-10~55°C							
Noise Level @ 1m	≤45dB @ 25°C (77°F)		<60dB @ 25°C (77°F)					
Type of Cooling	Intelligent Air Cooling							
Warranty	2 Years							
Communication								
Communication Port	RS485/CAN/Wi-Fi/Bluetooth/4G							
Certification								
Overview	IEC/EN 62109-1/-2, EN 61000-6-1/-3, IEC 63027:2023, Rohs							

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