



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
Inverter Output					
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				
Battery					
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
PV Input					
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				
Mains Power & Generator Input					
Input Voltage Range	170~280V±7V(UPS); 90~280V±7V(APL)				
Input Frequency Range	50/60Hz				
Bypass Overload Current	63A				
Efficiency					
MPPT Efficiency	99%				
Max Efficiency Of Battery Inversion	93%				
General					
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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