

PowerX Core M

- Support deep customization
- Built-in battery optimizer ensures worry-free mixing of new and old batteries
- Default configuration includes active balancing
- Built-in safety features
- High energy density design enables efficient energy storage in a more compact form
- All-in-one units can be horizontally paralleled



Inverter Technical Data

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							

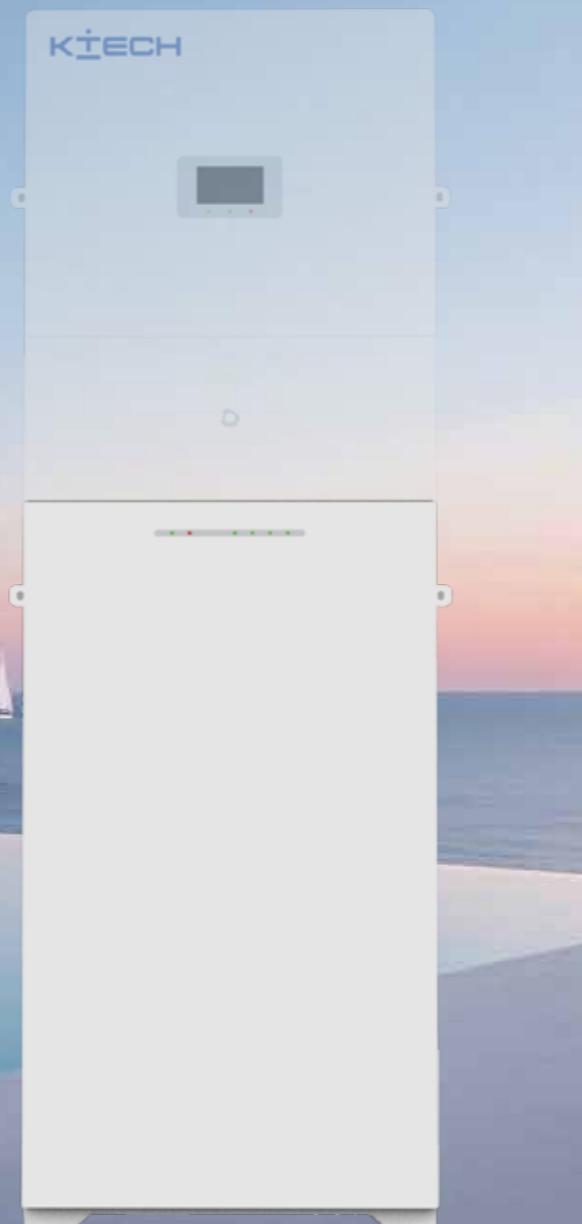
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Battery Technical Data

Model	NP-WG10	NP-WG15	NP-WG165
Type	LiFePO4		
Capacity	48V 200 AH	48V 314 AH	51.2V 320 AH
Rated Energy (kWh)	9.6	15	16.4
Usable Energy (kWh)	8.8	13.8	15
Peak Output Power (kW, 3s)	9.6	9.8	10
Round-trip Efficiency	≥97.5%		
Rated Voltage (V)	48/51.2V	48/51.2V	51.2V
Operating Voltage (V)	42V-55V	42V-55V	42V-55V
Maximum Charge/Discharge Current (A)	200A/200A	200A/200A	200A/200A
Communication Port	CAN, RS485		
Ingress Protection (IP) Rating	IP21		
Operating Temperature Range(°C)	-15-60°C		
Type of Cooling	Natural cooling		
Installation	Wall-mounted and floor-standing		
Cycle Life	> 6,000 times		> 8,000 times
Design Life	10+years (25°C@77°F)		
Recommended Depth of Discharge (DOD)	90%		
Dimensions (HxWxD)	900x395x165mm	1400x395x165mm	1400x395x165mm
Weight	90kg	130kg	136kg
Permissible Ambient Humidity	5% - 95%		
Permissible Altitude (m)	< 2,000		
Warranty	5 Years		
Safety Standards	CE UN38.3; IEC62619		
Scalability	Support parallel connection of 30+ units		
Ktech Cloud Platform	Yes		

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