KTECH®



KE-5KC5L1UF

- Ingress Protection(IP)Rating: IP20
- Supports up to 6 parallel units
- MPPT tracking efficiency up to 99%
- Supports in-depth customization
- BMS communication protocol is openable
- Split-phase inverter supports single-phase full power output

Single-Phase Technical Parameters For The American Grid

Model	KE-5KC5L1UF
Inverter Output	
Rated Output Power(W)	5000
Max.Peak Power(W)	10000
Rated Output Voltage(V)	110/120
Rated Frequency(Hz)	50/60
Overload Capability	110% 5min；200% 5s
Output Waveform	Pure Sine Wave
Transfer Time	10ms (Typical value); Max 15ms for single unit, max 30ms for parallel operation
Max.Number of Parallel Units	6
Total Voltage Total Harmonic Distortion (THDv)	<3% (Rated power)
DC Current Output	<0.5% x Rated current
Eco Mode / Energy Saving Mode	Support
Battery	
Battery Type	Lead-acid or Lithium Iron Phosphate Battery
Rated Battery Voltage(V)	48
Voltage Range(V)	40~60
Lithium-ion Battery Charging Strategy	BMS Adaptive
Max.Charge Current(A)	120
Max.Discharge Current(A)	120
PV Input	
Number of MPPT Trackers	1
Max.Input Power(W)	7500
Max.Input Current(A)	27
Max.Input Short-Circuit Current(A)	40
Max.Open-Circuit Voltage (Voc)(V)	500
Rated MPPT Voltage(V)	375
MPPT Start-up Voltage(V)	100
MPPT Operating Voltage Range(V)	125~425
Utility / Generator Input	
Input Voltage Range(V)	90~140
Input Frequency Range(Hz)	50/45-55，60/55-65
Bypass Overload Current(A)	63
Efficiency	
Max. Efficiency	97.6%
Euro Efficiency	96.5%
MPPT Tracking Efficiency	99%
Protection	
Integrated Protection	Over-temperature protection, overload protection, short-circuit protection, PV overvoltage protection, PV overcurrent protection, battery overvoltage protection，surge protection
Surge Protection Level	DC Type II / AC Type III
General	
Dimensions (H×W×D)(mm)	472x355x130
Weight(kg)	14.5
Ingress Protection (IP) Rating	IP20
Operating Temperature Range	-10~55℃ (>45℃ Derating)
Noise Level @ 1m	≤45 @ 25℃ (77°F)
Type of Cooling	Intelligent Air Cooling
Warranty	1 Year
Communication	
Communication Port	Built-in：RS485/CAN/WIFI/Bluetooth; Option:4G
Certification	
Overview	UL 1741 3nd Edition (September 28, 2021),CSA-C22.2 No.107.1-16, FCC SDOC Part 15B

Web：www.ktechsolar.com
Email：info@ktechsolar.com