KTECH®




# KE-6KC6LSUF

- 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

# Split-Phase Technical Parameters For The American Grid

| Model | KE-6KC6LSUF |
|---|---|
| Inverter Output | |
| Rated Output Power(W) | 6000 |
| Max.Peak Power(W) | 12000 |
| Rated Output Voltage(V) | 120/240 |
| 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) | 9000 |
| 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) | 90~280 |
| Input Frequency Range(Hz) | 50/45-55，60/55-65 |
| Bypass Overload Current(A) | 45 |
| 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) | 472x412x130 |
| Weight(kg) | 16 |
| 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 |

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