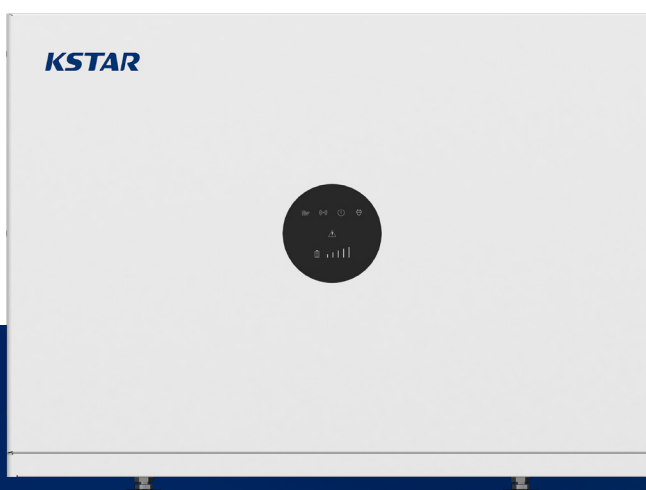


Generating
Superior Solutions
for Energy and More

Residential ESS **E(4~12)KT-D22** BlueSpark Series

Three Phase
Capacity Range: 4~12 kW
All-in-one Hybrid System



Smart Energy Ecosystem

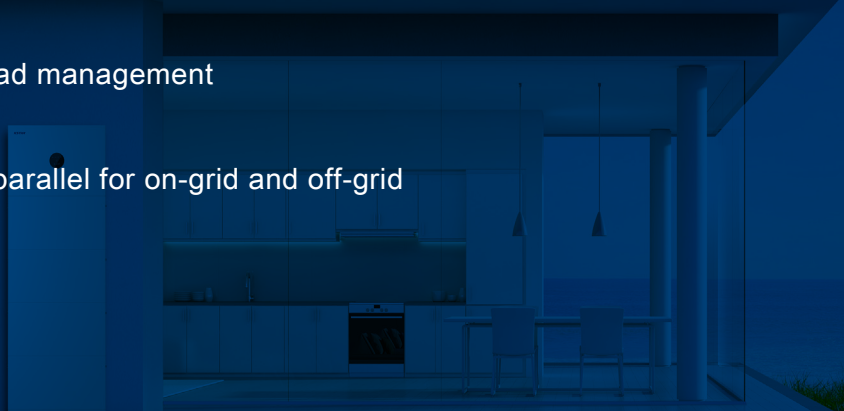
- 24/7 cloud monitoring with EMS & VPP compatibility

Smart Load Control

- SG-Ready with flexible load management

Flexible Expansion

- Supports up to 4 units in parallel for on-grid and off-grid



| Hybrid Inverter Model | E4KT-D22 | E5KT-D22 | E6KT-D22 | E8KT-D22 | E10KT-D22 | E12KT-D22 |
|---|---|--------------|--------------|--------------|--------------|-----------------|
| PV Input | | | | | | |
| Recommended Max. PV Array Input Power @STC | 10 kW | 11 kW | 12 kW | 16 kW | 20 kW | 22 kW |
| Max PV Voltage | 1000 V | | | | | |
| Nominal Voltage | 720 V | | | | | |
| MPPT Voltage Range | 140 ~ 950 V | | | | | |
| MPPT Voltage Range with Full Load Start Voltage ¹⁾ | 200 ~ 800 V | 230 ~ 800 V | 250 ~ 800 V | 290 ~ 800 V | 320 ~ 800 V | 350 ~ 800 V |
| Number of MPPT Tracker | 2 | | | | | |
| String per MPPT Tracker | 1 | | | | | |
| Max. Input Current per MPPT | 20 A | | | | | |
| Max. Short-Circuit Current per MPPT | 25 A | | | | | |
| AC Output & Input (Grid) | | | | | | |
| Max. AC Continuous Output Power | 4000 W | 5000 W | 6000 W | 8000 W | 10000 W | 12000 W |
| Max. AC Apparent Output Power | 4400 VA | 5500 VA | 6600 VA | 8800 VA | 11000 VA | 13200 VA |
| Max. Continuous Input Power | 10000 W | 11000 W | 12000 W | 16000 W | 20000 W | 22000 W |
| Nominal AC Voltage | 400 Vac | | | | | |
| Normal Frequency | 50 Hz / 60 Hz | | | | | |
| Normal Output Current | 5.8 A (RMS) | 7.3 A (RMS) | 8.7 A (RMS) | 11.6 A (RMS) | 14.5 A (RMS) | 17.4 A (RMS) |
| Max. Output Current | 13.1 A (RMS) | 13.1 A (RMS) | 13.1 A (RMS) | 26.1 A (RMS) | 26.1 A (RMS) | 26.1 A (RMS) |
| Max. Input Current | 21.0 A (RMS) | 22.6 A (RMS) | 22.6 A (RMS) | 38.8 A (RMS) | 42 A (RMS) | 42 A (RMS) |
| Power Factor (cos φ) | -0.8 (Lagging) ~ 0.8 (Leading) | | | | | |
| THDi | <3% | | | | | |
| AC Output (Backup) | | | | | | |
| Normal AC Output Power | 4000 W | 5000 W | 6000 W | 8000 W | 10000 W | 12000 W |
| Rated AC Output Power | 4000 VA | 5000 VA | 6000 VA | 8000 VA | 10000 VA | 12000 VA |
| Normal Output Current | 5.8 A | 7.3 A | 8.7 A | 11.6 A | 14.5 A | 17.4 A |
| Max. Output Current | 13.1 A (RMS) | 13.1 A (RMS) | 13.1 A (RMS) | 26.1 A (RMS) | 26.1 A (RMS) | 26.1 A (RMS) |
| Nominal Output Voltage | 400 Vac | | | | | |
| Nominal Output Frequency | 50 Hz / 60 Hz | | | | | |
| Output THDv (@Linear Load) | 2% (Linear Load) | | | | | |
| Battery Input | | | | | | |
| Battery Type | LFP (LiFePO4) | | | | | |
| Nominal Battery Voltage | 51.2 V | | | | | |
| Charging Voltage Range | 44 ~ 58 V | | | | | |
| Max. Charging / Discharging Current | 100 / 100 A | 120 / 120 A | 120 / 150A | 160 / 200 A | 200 / 240 A | 200 / 240 A |
| Rated Charging / Discharging Power | 4000 W | 5000 W | 6000 W | 8000 W | 10000 W | 10000W / 12000W |
| Battery Capacity | 100 ~ 800 Ah | | | | | |
| Efficiency | | | | | | |
| Max. PV Efficiency | 96.6 % | | | 97.2 % | | |
| Euro. Efficiency | 94.5 % | | | 95.5 % | | |
| Protection | | | | | | |
| DC Switch | Integrated | | | | | |
| Anti-islanding Protection | Integrated | | | | | |
| Active Anti-islanding Method | Frequency Shift | | | | | |
| Residual Current Monitoring | Integrated | | | | | |
| PV Reverse Polarity Protection | Integrated | | | | | |
| AC Short Circuit Protection | Integrated | | | | | |
| AC Overvoltage Protection | Integrated | | | | | |
| DC / AC Surge Protection | DC Type II; AC Type III | | | | | |
| Overvoltage Category | II (DC side); III (AC side) | | | | | |
| Remote Shutdown | Integrated | | | | | |
| AFCI | Optional | | | | | |
| General Specifications | | | | | | |
| Dimensions (W x H x D) | 725 × 490 × 245 mm | | | | | |
| Weight | 40 kg | | | 43 kg | | |
| Operating Temperature Range | -25°C to +60°C (> 40°C derating) | | | | | |
| Cooling Type | Natural Convection | | | | | |
| Max. Operation Altitude | ≤ 4000m | | | | | |
| Operation Humidity | 0 ~ 95% (No Condensation) | | | | | |
| IP Class | IP66 | | | | | |
| Protective Class | I | | | | | |
| Communication | RS-485 / CAN 2.0 / WIFI | | | | | |
| Topology | Isolated method(solar); non-isolated Isolated method(battery): Isolated | | | | | |
| Display | LED / WIFI+APP / Web | | | | | |
| Country of Manufacture | China | | | | | |
| Warranty | 10 Years | | | | | |
| Certification & Standard | IEC/EN62109-1&2; IEC/EN 61000-6-1; IEC/EN 61000-6-2; EN 61000-6-3; IEC/EN 61000-6-4; IEC/EN 61000-3-11; EN 61000-3-12; IEC 60529; IEC 61727; IEC 62116; IEC 60068; IEC 61683; EN 50549-1; EN 50549-10; VDE-AR-N 4105; NC RfG:2018; C10/C11; AS/NZS 4777.2 | | | | | |

1) Minimum voltage for inverter to start power output.