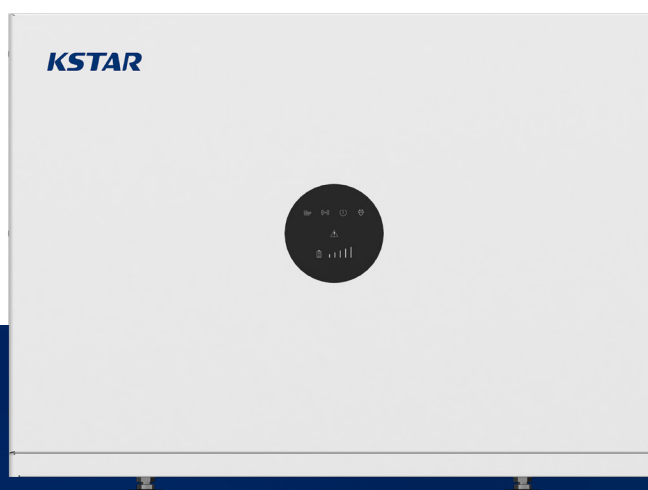


Generating
Superior Solutions
for Energy and More

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

Three Phase
Capacity Range: 4~12 kW
Hybrid Inverter



Smart Energy Ecosystem

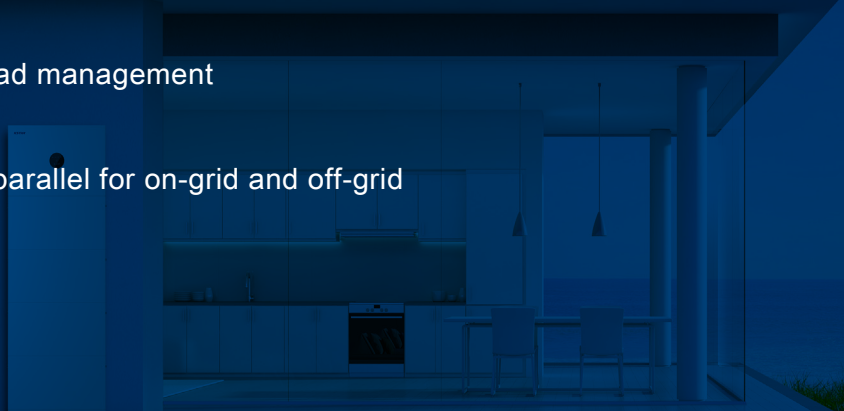
- 24/7 cloud monitoring with EMS & VPP compatibility

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)						
Rated Output Power	4000 W	5000 W	6000 W	8000 W	10000 W	12000 W
Rated AC Apparent Output Power	4000 VA	5000 VA	6000 VA	8000 VA	10000 VA	12000 VA
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	3 / N / PE; 230 / 400 Vac					
Nominal Frequency	50 Hz					
Nominal 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)	35 A (RMS)	35 A (RMS)	35 A (RMS)
Power Factor (cos φ)	-0.8 (Lagging) ~ 0.8 (Leading)					
THDi	< 3%					
AC Output (Backup)						
Nominal 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
Nominal 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	3 / N / PE; 230 / 400 Vac					
Nominal Output Frequency	50 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
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	≤ 3000m					
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.