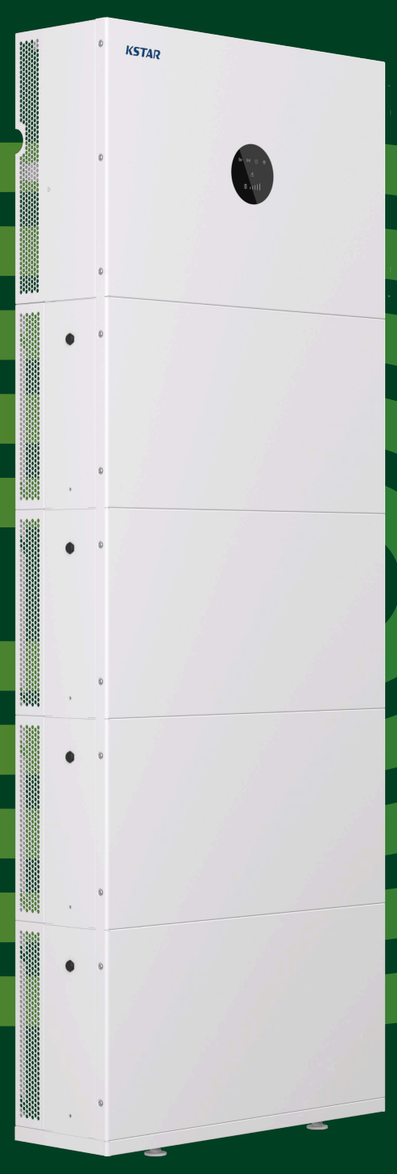
dantech
ENERGY OUTSIDE THE BOX

DT SPARK 3+

Three Phase / 8–12 kW
Hybrid Residential ESS



USE CASES

Household Energy Storage

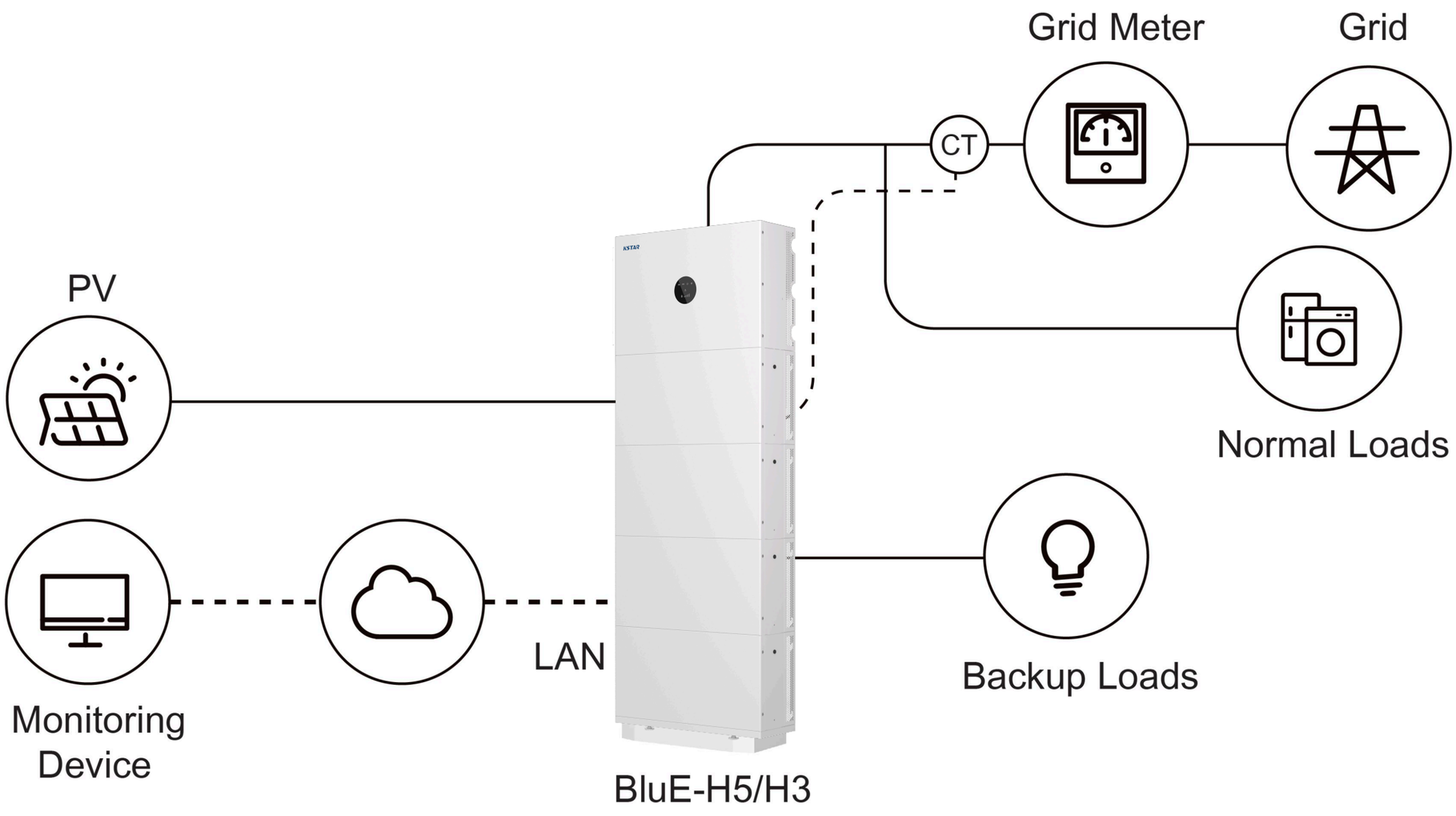
Seamlessly integrate our storage solutions into your home to ensure uninterrupted power supply and maximize the use of renewable energy sources.

Carports

Efficiently charge your electric vehicles and store excess energy with our carport solutions, providing convenience and sustainability for your daily commute.

Off-Grid Living

Achieve total energy independence with our off-grid solutions, designed to provide reliable power in remote locations, ensuring a continuous energy supply.



Battery Model

Model	BP48100P1-G2 / BP48100PF1-G2
GENERAL PARAMETERS	
Battery Type	LFP
Cell Brand	EVE / CATL
Energy Capacity	5.12 kWh
Usable Capacity	4.6 kWh
Max.Depth of Discharge	100%
Nominal Voltage	51.2 V
Operating Voltage Range	44.8 ~ 57.6 V
Battery Pack Round-Trip Efficiency	› 94%
Weight	51 kg
Dimensions (W x H x D)	725 x 418 x 165 mm
IP Protection	IP65
Warranty	5 Year Product Warranty, 10 Year Performance
OPERATION	
Max. Continuous Charging Current	50 A (single battery pack)
Max. Continuous Charging Power	2825 W
Max. Continuous Discharging Current	80 A (single battery pack)
Max. Continuous Discharging Power	4096 W
Operating Temperature Range	-10 to 50℃ (Charging); -10 to 50℃ (Discharging)
Cooling Type	Natural Cooling
Humidity	0 ~ 90%
BMS	
Modules Connection	Max. 8
Capacity	100 / 200 / 300 / 400 / 500 / 600 / 700 / 800 Ah
Communication	CAN
Monitoring Parameters	System voltage,current,battery voltage, Battery temperature,PCBA temperature measurement
CERTIFICATE	
Safety and Transportation	Pack: IEC/EN 62619; UN38.3; Cell:IEC/EN 62619; UN38.3; UL1973

Hybrid Inverter Model

Model	E8KT-D22	E10KT-D22	E12KT-D22
PV INPUT			
Recommended Max.PV Array	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	290 ~ 800 V	320 ~ 800 V	350 ~ 800 V
Start Voltage		200 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	8000 W	10000 W	12000 W
Max. AC Apparent Output Power	8800 VA	11000 VA	13200 VA
Max. Continuous Input Power	16000 W	20000 W	22000 W
Nominal AC Voltage		400 Vac	
Norminal Frequency		50 Hz / 60 Hz (±5 Hz)	
Norminal Output Current	11.6 A	14.5 A	17.4 A
Max. Output Current	26.1 A	26.1 A	26.1 A
Max. Input Current	38.8 A	42 A	42 A
Power Factor (cosΦ)		-0.8 (Lagging) ~ 0.8 (Leading)	
THDi		< 3%	

Hybrid Inverter Model

Model	E4KT-D22	E5KT-D22	E6KT-D22
AC OUTPUT (BACKUP)			
Nominal AC Output Power	8000 W	10000 W	12000 W
Max. AC Output Power	8000 VA	10000 VA	12000 VA
Nominal Output Current	11.6 A	14.5 A	17.4 A
Max. Output Current	26.1 A	26.1 A	26.1 A
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	160 A / 200 A	200 A / 240 A	200 A / 240 A
Rated Charging / Discharging Power	8000 W	10000 W	10000 W / 12000 W
Battery Capacity		100 ~ 800 Ah	
EFFICIENCY			
Max. PV Efficiency		97.2 %	
Euro. Efficiency		95.5 %	
PROTECTION			
DC Switch		Integrated	
Anti-islanding Protection		Integrated	
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	
Remote Shutdown		Integrated	
AFCI		Optional	
GENERAL SPECIFICATION			
Dimensions (W x H x D)		725 × 490 × 245 mm	
Weight		43 kg	
Operating Temperature Range		-25°C to + 60°C (> 40°C derating)	
Cooling Type		Natural Convention	
Max. Operation Altitude		≤ 4000 m	
Operation Humidity		0 ~ 95% (No Condensation)	
IP Class		IP66	
Topology		High Frequency Isolation	
Communication		RS-485 / CAN2.0 / WIFI	
Display		LED / APP / WEB	
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	

GOT QUESTIONS?
GET IN TOUCH WITH US

Dan-Tech Energy GmbH

www.danenergy.de

Max-Planck-Str. 7, Berlin 12489 Germany

+49 (030) 5770-34433

info@danenergy.com