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Industrial Energy Storage System ◀ ◀ ◀

Solar Energy Storage System ◀ ◀ ◀

Household Energy Storage System ◀ ◀ ◀

High / Low Voltage Battery Pack ◀ ◀ ◀

Hybrid Solar inverter ◀ ◀ ◀

Portable Outdoor Power Supply ◀ ◀ ◀

OEM/ODM

DINGKE ENERGY TECHNOLOGY CO., LTD.

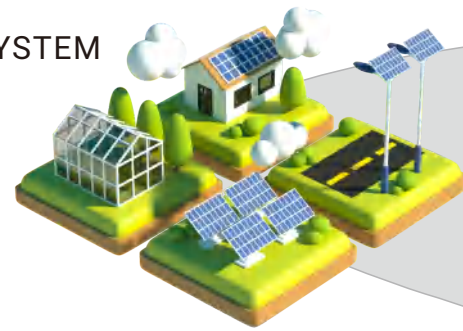
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DINGKE ENERGY TECHNOLOGY CO., LTD.

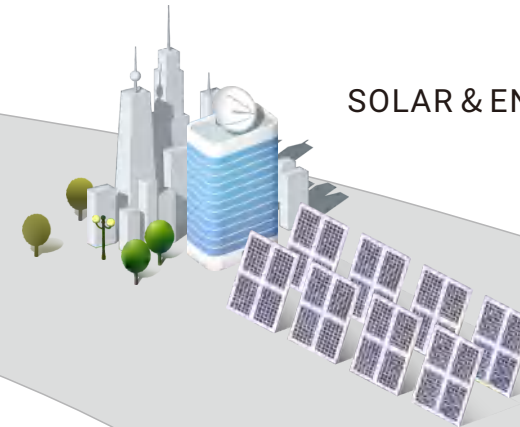
INDUSTRY



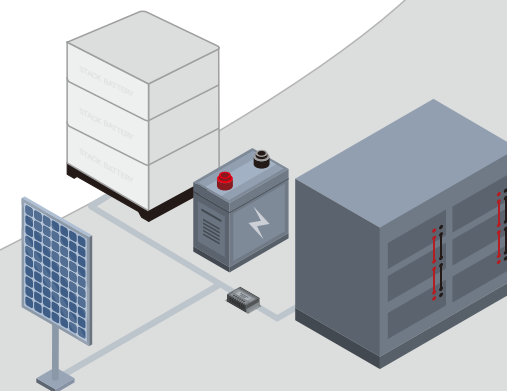
SOLAR OFF-GRID SYSTEM



SOLAR & ENERGY STORAGE SYSTEM



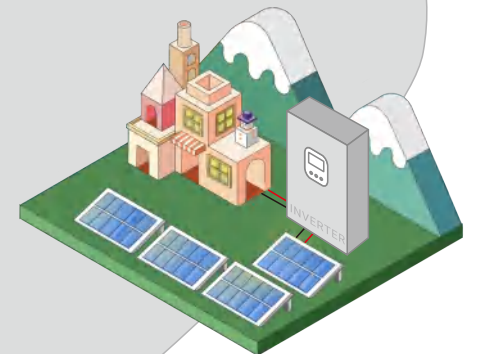
LITHIUM BATTERY PACK



PORTABLE MOBILE POWER SUPPLY



SOLAR INVERTER



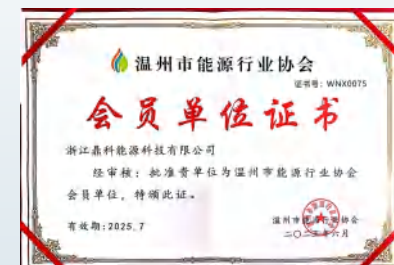
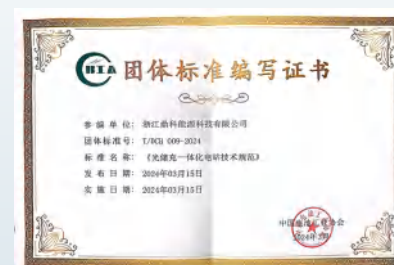
TOPTEC

About us

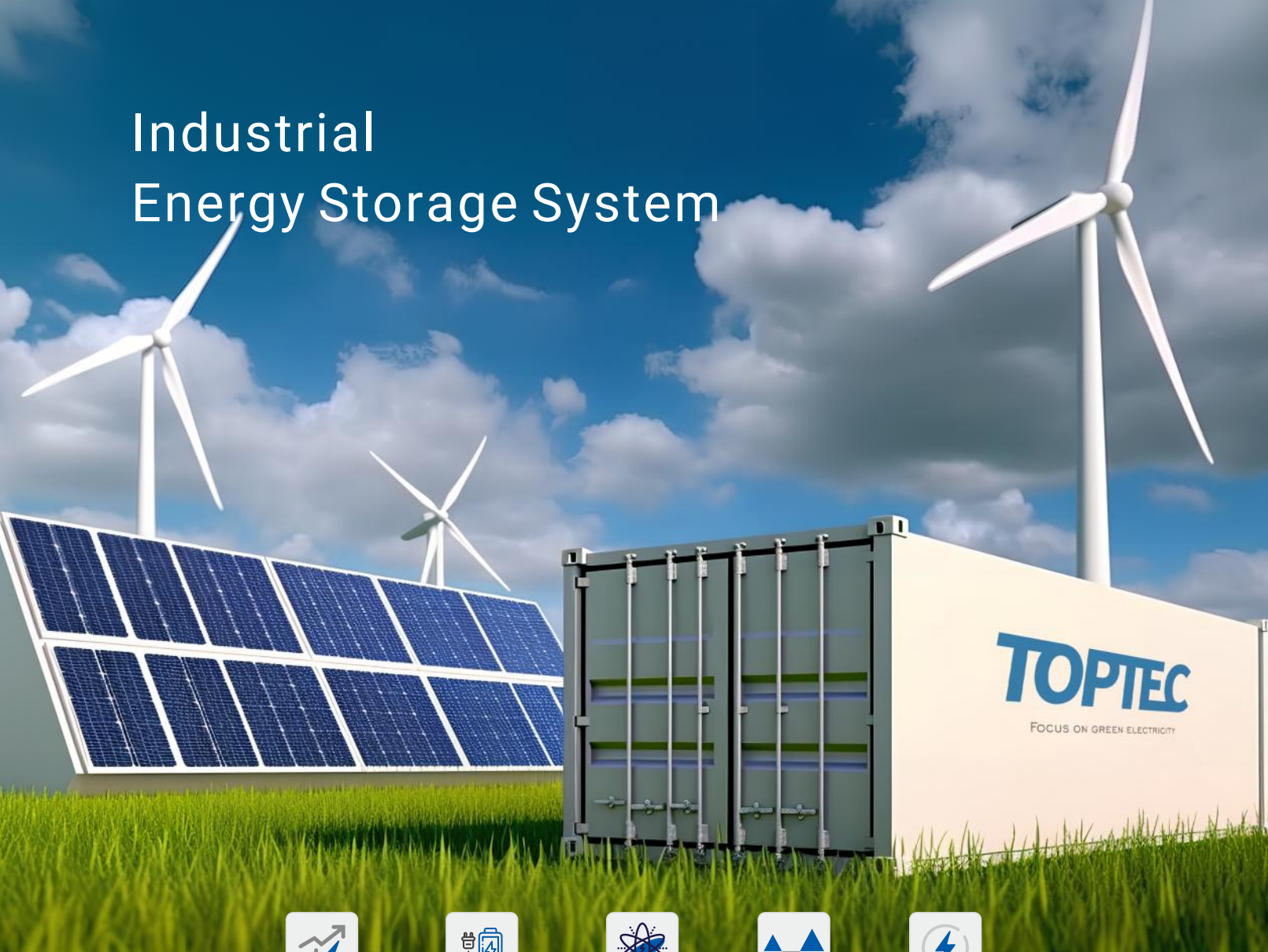
Zhejiang Dingke Energy Technology Co., Ltd. is a manufacturer specializing in the production and development of energy storage systems and inverters. It has an independent R&D team and production team. Main products: industrial energy storage systems, solar energy storage systems, household energy storage systems, high/low voltage energy storage lithium battery pack, solar inverter, portable outdoor power supply etc. From BMS to lithium battery pack solution design, system inheritance, and supporting integration; we provide all-round integrated services from product design, solution development, and production OEM. Many products have passed ISO9001, UN38.3, MSDS, CE, FCC, RoHS and other international certifications. It is widely used in solar energy storage systems, solar off-grid systems, microgrids, household energy storage, New energy vehicle charging station, communication base station energy storage, data center backup power supplies and modular energy storage products.

We have established a complete organizational structure and management system with a modern and intelligent enterprise management system. The R&D and technical teams are experienced and have a sound standard system in production and manufacturing, process control, quality management, quality standards, and after-sales service, ensuring users experience high-quality products and satisfactory services.

TOPTEC will serve users with heart, and provide OEM/ODM services to our customers with high-quality products, solid quality and high-quality services. Let TOPTEC go global and provide users with reliable and high-quality energy storage products. Contribute to "carbon neutrality" and make green energy and ecology more harmonious.



Industrial Energy Storage System



Power grid



UPS



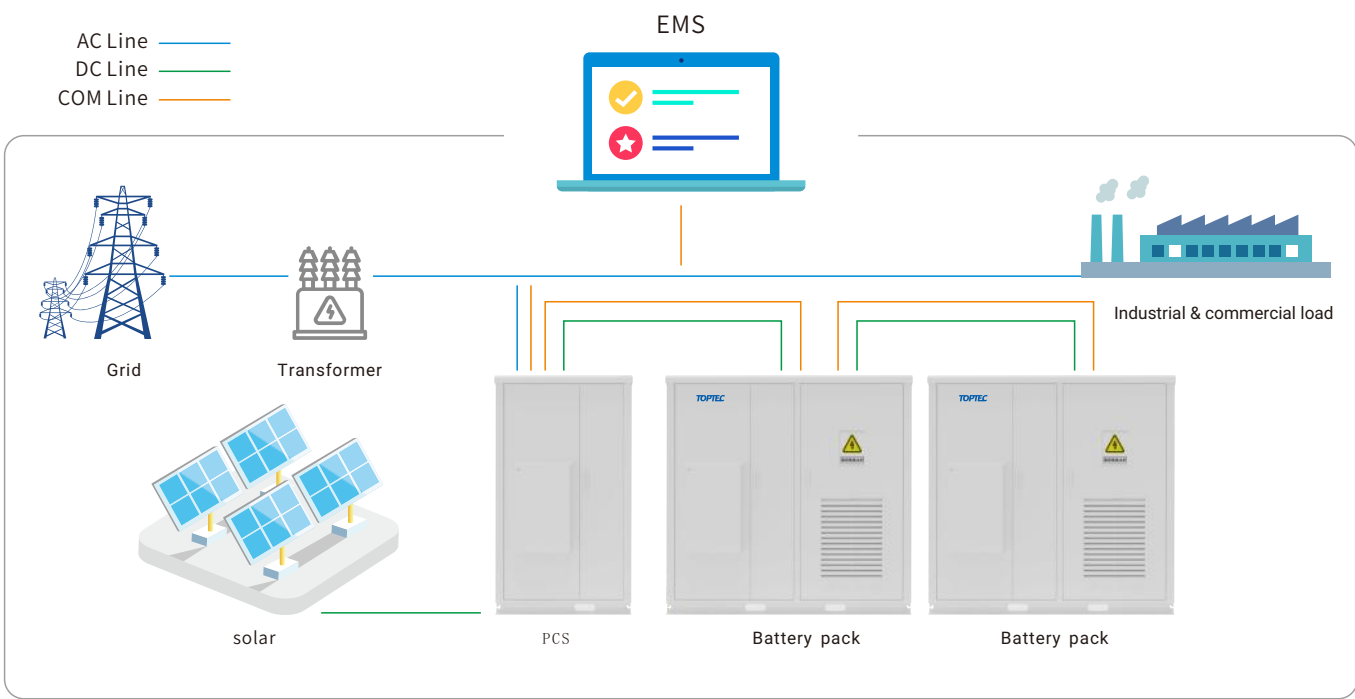
Intelligent control



Energy saving



Green power

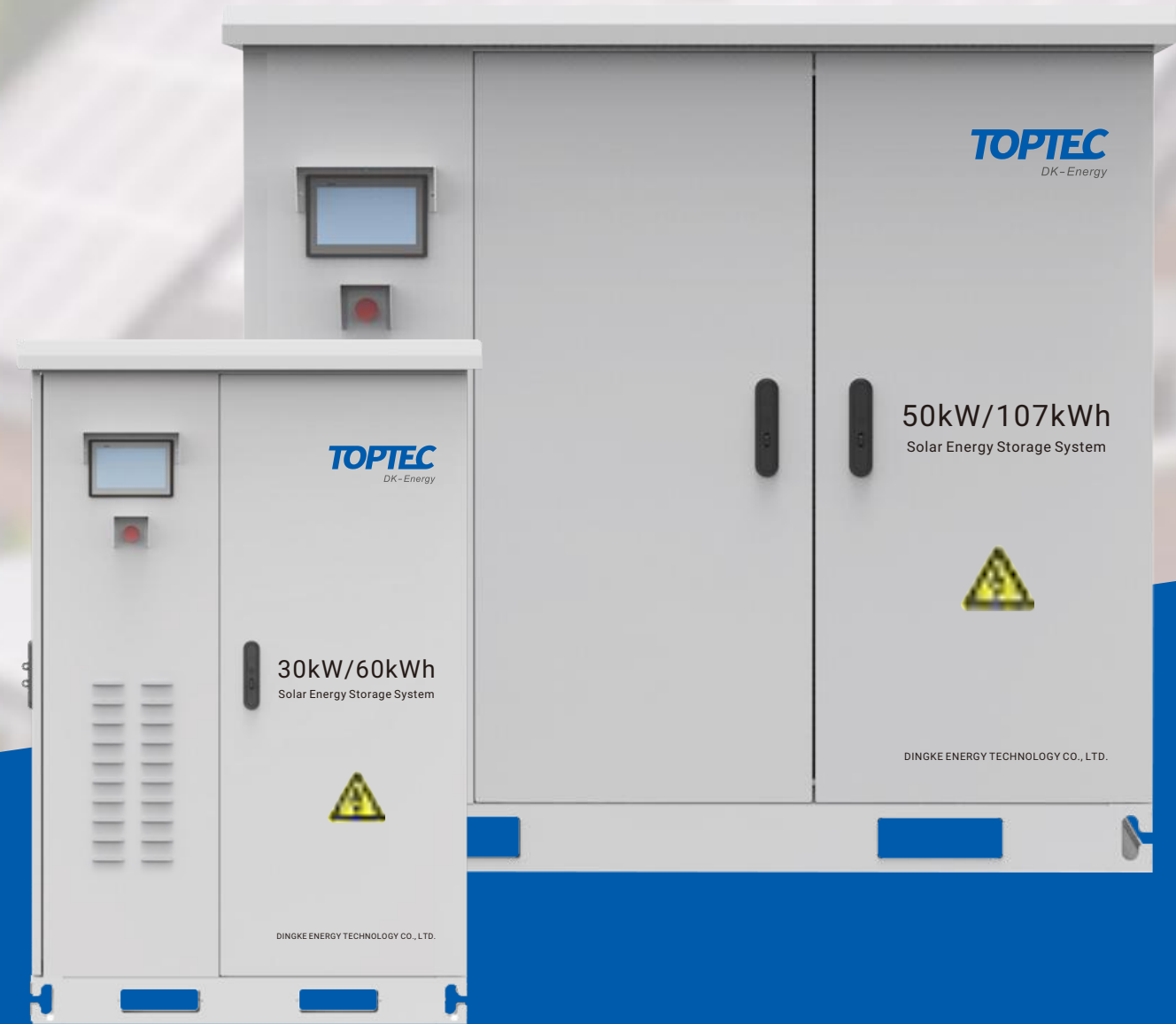
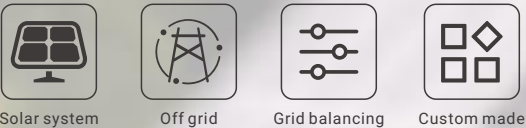


Technical Parameters

Cell parameters			
Cell type	Lithium iron phosphate(LFP) 280Ah		
Rated voltage	3.2V		
Depth of discharge	Deep discharge 90%		
Installed capacity			
Rated power	215kWh	645kWh	1MWh
Battery rated voltage	768V	720V	720V
Battery voltage range	600V-876V	560V-820V	560V-820V
DC discharge current	140A	140A	140A
Single Cluster Battery Pack	16S1P	15S1P	15S1P
Number of battery	15PCS (15S)	45PCS (15S3P)	75PCS (15S5P)
AC Side			
Rated power	100KW	300KW	500KW
Rated grid voltage	400V		
Rated AC current	140A		
Allowable voltage range	360V~440V		
Rated grid frequency	50Hz/60Hz		
Power Factor	>0.99		
AC access method	3W+N+PE		
System parameters			
System efficiency	>86%		
Cycle life	>6000(25℃ 0.5C >90%DOD 70%EOL)		
Cooling method	Air Cooling		
Allowable ambient temp.	-30~50℃		
Maximum working altitude	4000m(>2000mDerating is required)		
Fire mode	Heptafluoropropane gas fire extinguishing device		
International Protection	IP54		
Communication method	RS485/CAN		
Operating mode	Microgrid, UPS, Backup power		

DKP Series

Solar Energy Storage System



- ※ Famous brand composition, quality assurance
- ※ Built-in inverter, direct access, more convenient
- ※ WiFi/4G, intelligent monitoring provides more peace of mind
- ※ Flexible deployment, convenient wiring, safer and more convenient

DKP solar energy storage system integrated machine is designed to meet the needs of solar systems and energy storage system. It has high energy saving efficiency, high energy density, fast access to on-grid/off-grid photovoltaics, and strong environmental adaptability, especially in distribution and storage. The system is integrated by the cabinet, air-cooled air conditioner, inverter/PCS, BMS, lithium battery, high-voltage control box, fire protection system, electrical system and safety auxiliary system.

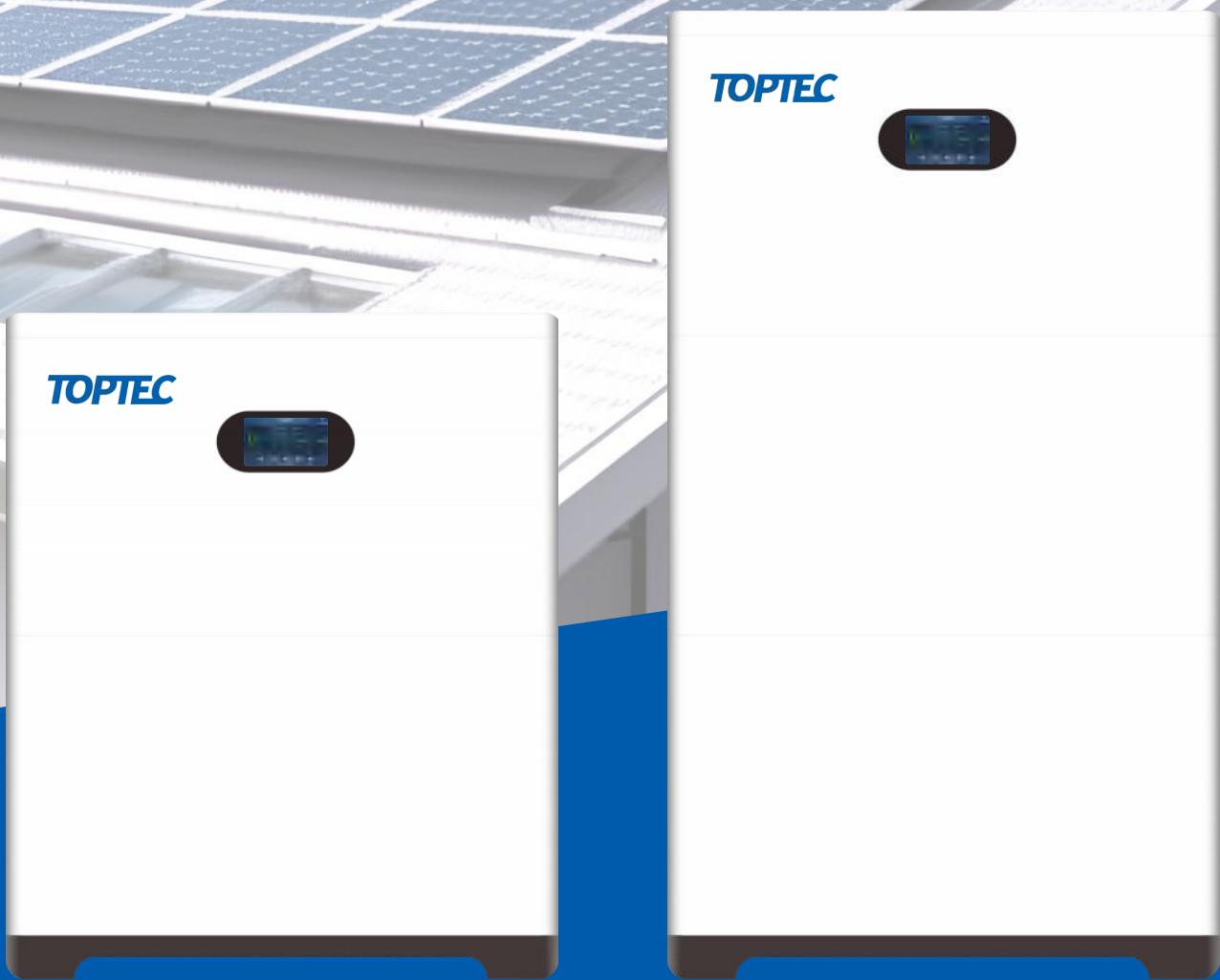
Technical Parameters

Model	DKP-20	DKP-30	DKP-50
Specifications	20kW/51.2kWh	30kW/61.44kWh	50kW/107kWh
Pack combination	256V200Ah/51.2kWh	307.2V200Ah/61.44kWh	716V150Ah/107kWh
Inverter power	20kW	30kW	50kW
DC standard voltage	256VDC	307.2VDC	716VDC
DC voltage range	212-288VDC	245-345VDC	582-806VDC
Cell type	LFP 3.2V/200Ah	LFP 3.2V/200Ah	LFP 3.2V/150Ah
Max.charge/discharge power	22kW	33kW	55kW
Max.input solar power	26kW	39kW	65kW
Rated grid voltage	380V AC		
Rated grid frequency	50/60Hz ±5Hz		
Battery cycle life	>6000 times (0.5C@25°C) Energy retention rate ≥80%		
Charge and discharge rate	≤0.5C		
System efficiency/discharge depth	Maximum efficiency 97% /DOD90%		
Thermal management	Intelligent air cooling		
Firefighting	PACK aerosol/cabinet aerosol		
UPS	Backup time: 10 minutes		
Control method	local control system		
Operating mode	On-grid/off-grid		
Communication	CAN/RS485/WiFi		
Access method	AC bottom incoming line/three-phase four-wire/3L+N+PE		
Use ambient temperature	0°C~+50°C		
Use ambient humidity	0~95%RH		
Storage temperature	-20°C~+60°C		
Working altitude	2000m (>2000m derated use)		
International Protection	IP54		
Product Size	1000*1073*1925mm	1100*1525*1173mm	1000*1194*2200mm
Product weight	1100kg	1250kg	2100kg

*Customized different brands of inverters, cell and different voltage, capacity, dimensions/color , OEM/ODM services

DKL Series

Vertical Energy Storage Lithium Battery



- ※ Famous brand composition, quality assurance
- ※ Touch screen makes interaction more convenient
- ※ WiFi/Bluetooth, intelligent monitoring provides more peace of mind
- ※ Supports most brands of inverter communication



DKL series household energy storage use high-quality square aluminum-cased lithium iron phosphate batteries and are equipped with intelligent BMS. long life, high safety performance, beautiful appearance, free combination, and easy installation. The battery pack is equipped with a touch LCD display to visualize operating data. Compatible with most brands of photovoltaic inverters and able to communicate with them. It is widely used in distributed photovoltaic systems and home energy storage systems. Provide efficient and clean energy for household, industrial, commercial, agricultural and other electrical equipment.

Technical Parameters

Model	DKL-5	DKL-10
Specifications	51.2V100Ah	51.2V200Ah
Can be combined	Parallel 3-layer stackable	Single parallel to 15 PCS
Battery pack capacity	5.12kWh	10.24kWh
Standard discharge current	50A	100A
Maximum discharge current	100A	105A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC
Maximum charging current	50A	50A
Maximum charging voltage	57.6V	57.6V
Discharge depth and life	>6000 times (0.5C@25℃) Energy retention rate ≥80%	
Working humidity	65±20%RH	
Operating temperature	0~+40℃	
Working altitude	≤2500m	
Firefighting	Aerosol PACK 12g	
Cooling method	Natural cooling	
Installation method	Vertical installation	
International Protection	IP20	
Warranty	5~10Years	
Communication method	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)	
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001	
Product Size	630*380*150mm	630*500*150mm
Package Size	690*440*220mm	690*560*220mm
Net weight	45kg	90kg
Gross weight	51kg	96kg

*Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services



LOW VOLTAGE PROTECTION



OVER VOLTAGE PROTECTION



OVER CURRENT PROTECTION



OVER TEMPERATURE PROTECTION



BALANCED PROTECTION



OVER DISCHARGE PROTECTION



SHORT CIRCUIT PROTECTION

DKS Series

Stacked Energy Storage Lithium Battery


Free combination


MAX 15PCS
Parallel


Communication


Custom made



Technical Parameters

Model	DKS-5	
Specifications	48V100Ah	51. 2V100Ah
Cell Combination	15S1P	16S1P
Battery pack capacity	4.8kWh	5.12kWh
Standard discharge current	50A	50A
Maximum discharge current	100A	100A
Working voltage range	40.5-54VDC	43.2-57.6VDC
Standard Voltage	48VDC	51.2VDC
Maximum charging current	50A	50A
Maximum charging voltage	54V	57.6V
Discharge depth and life	>6000 times (0.5C@25℃) Energy retention rate ≥80%	
Working humidity	65±20%RH	
Operating temperature	0~+40℃	
Working altitude	≤2500m	
Firefighting	Aerosol PACK 12g	
Cooling method	Natural cooling	
Installation method	Stack installation	
International Protection	IP20	
Warranty	5~10Years	
Communication method	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)	
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001	
Product Size	450*550*195mm	
Package Size	510*610*260mm	
Net weight	50kg	53kg
Gross weight	55kg	58kg

*Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services


LOW VOLTAGE PROTECTION


OVER VOLTAGE PROTECTION


OVER CURRENT PROTECTION


OVER TEMPERATURE PROTECTION


BALANCED PROTECTION


OVER DISCHARGE PROTECTION


SHORT CIRCUIT PROTECTION

DKM Series

Wall-mounted Energy Storage Lithium Battery



Wall installation



Touchscreen



Communication



Custom made

DKM series household energy storage use high-quality square aluminum-cased lithium iron phosphate batteries and are equipped with intelligent BMS. long life, high safety performance, beautiful appearance, free combination, and easy installation. The battery pack is equipped with a touch LCD display to visualize operating data. Compatible with most brands of photovoltaic inverters and able to communicate with them. It is widely used in distributed photovoltaic systems and home energy storage systems. Provide efficient and clean energy for household, industrial, commercial, agricultural and other electrical equipment.

Technical Parameters

Model	DKM4850		DKM48100		DKM48200	
Specification	48V50Ah	51. 2V50Ah	48V100Ah	51. 2V100Ah	48V200Ah	51. 2V200Ah
Cell Combination	15S1P	16S1P	15S1P	16S1P	15S1P	16S1P
Battery pack capacity	2.4kWh	2.56kWh	4.8kWh	5.12kWh	9.6kWh	10.24kWh
Standard discharge current	50A	50A	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A	105A	105A
Working voltage range	40.5-54VDC	43.2-57.6VDC	40. 5-54VDC	43.2-57.6VDC	40. 5-54VDC	43.2-57.6VDC
Standard Voltage	48VDC	51.2VDC	48VDC	51.2VDC	48VDC	51.2VDC
Max. charging current	50A	50A	50A	50A	105A	105A
Max. charging voltage	54V	57.6V	54V	57.6V	54V	57.6V
Discharge depth and life	>6000 times (0.5C@25℃) Energy retention rate ≥80%					
Working humidity	65±20%RH					
Operating temperature	-10~+50℃					
Working altitude	≤2500m					
Firefighting	Aerosol PACK 12g					
Cooling method	Natural cooling					
Installation method	Wall mounting					
International Protection	IP20					
Max of parallel	15PCS					
Warranty	5~10 Years					
Communication method	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)					
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001					
Product Size	400*180*585mm		400*180*585mm		400*180*610mm	
Package Size	500*240*630mm		500*240*630mm		460*240*650mm	
Net weight	35kg	40kg	42kg	46kg	102kg	106kg
Gross weight	40kg	45kg	50kg	54kg	112kg	116kg

*Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services



LOW VOLTAGE PROTECTION



OVER VOLTAGE PROTECTION



OVER CURRENT PROTECTION



OVER TEMPERATURE PROTECTION



BALANCED PROTECTION



OVER DISCHARGE PROTECTION



SHORT CIRCUIT PROTECTION

Standard Free combination Parallel Communication Custom made



Model	DKC4850		DKC48100		DKC48200	
Specification	48V50Ah	51. 2V50Ah	48V100Ah	51. 2V100Ah	48V200Ah	51. 2V200Ah
Cell Combination	15S1P	16S1P	15S1P	16S1P	15S1P	16S1P
Battery pack capacity	2.4kWh	2.56kWh	4.8kWh	5.12kWh	9.6kWh	10.24kWh
Standard discharge current	50A	50A	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A	105A	105A
Working voltage range	40.5-54VDC	43.2-57.6VDC	40. 5- 54VDC	43.2-57.6VDC	40. 5- 54VDC	43.2-57.6VDC
Standard Voltage	48VDC	51.2VDC	48VDC	51.2VDC	48VDC	51.2VDC
Max. charging current	50A	50A	50A	50A	105A	105A
Max. charging voltage	54V	57.6V	54V	57.6V	54V	57.6V
Discharge depth and life	>6000 times (0.5C@25℃) Energy retention rate ≥80%					
Working humidity	65±20%RH					
Operating temperature	-10~+50℃					
Working altitude	≤2500m					
Firefighting	Aerosol PACK 12g					
Cooling method	Natural cooling					
Installation method	Cabinet/Rack Mount					
International Protection	IP20					
Max of parallel	15PCS					
Warranty	5~10 Years					
Communication method	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)					
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001					
Product Size	440*484*88mm		440*484*178mm		440*796*178mm	
Package Size	500*555*130mm		555*500*235mm		570*1010*365mm	
Net weight	25kg	37kg	41kg	45kg	101kg	105kg
Gross weight	30kg	42kg	49kg	55kg	111kg	115kg

DKH Series

High voltage Energy storage lithium battery

96/144/192/240/384/512/768/1500V



Master-slave Control



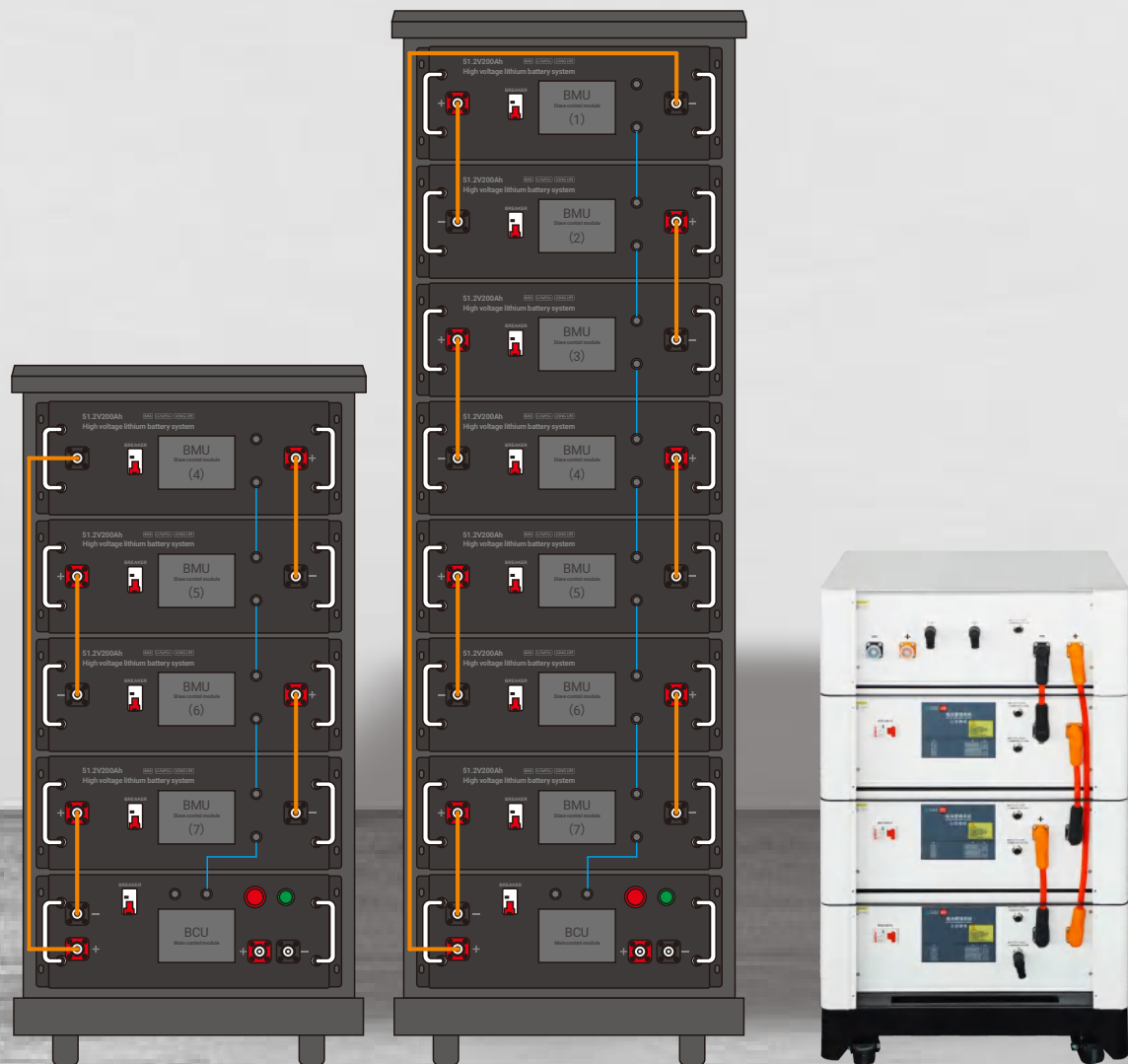
High voltage



Communication



Custom made



High voltage solution supports custom stack form factors



Technical Parameters

Model	DKH96	DKH144	DKH192	DKH240	DKH384	DKH512	DKH768
Specification	96V100AH	144V100AH	192V100AH	240V100AH	384V100AH	512V100AH	768V100AH
Battery pack capacity	9.6kWh	14.4kWh	19.2kWh	24kWh	38.4kWh	51.2kWh	76.8kWh
Standard discharge current	50A~300A(Customer customize)						
Max. discharge current	50A~300A(Customer customize)						
Working voltage range	81-108VDC	121.5-162VDC	162-216VDC	202.5-270VDC	324-432VDC	432-576VDC	648-864VDC
Standard Voltage	96V	144V	192V	240V	384V	512V	768V
Max. charging current	100A~300A(Customer customize)						
Max. charging voltage	81~864V						
Discharge depth and life	>6000 times (0.5C@25℃) Energy retention rate ≥80%						
Working humidity	65±20%RH						
Operating temperature	-10~+50℃						
Working altitude	≤2500m						
Firefighting	Aerosol PACK 12g						
Cooling method	Natural cooling						
Installation method	Cabinet/Rack/Stacked Mount						
International Protection	IP20						
Warranty	5~10 Years						
Communication method	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)						
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001						

* Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services



LOW VOLTAGE PROTECTION



OVER VOLTAGE PROTECTION



OVER CURRENT PROTECTION



OVER TEMPERATURE PROTECTION



BALANCED PROTECTION



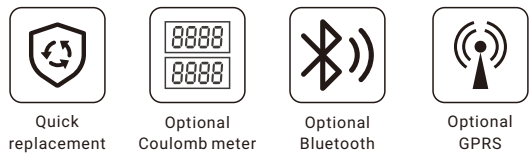
OVER DISCHARGE PROTECTION



SHORT CIRCUIT PROTECTION

DKV Series

Replace GEL battery Energy Storage Lithium Battery



DKV series shell purchases lead-acid/gel batteries with the same shape, adopts high-quality lithium iron phosphate cells, and is equipped with an intelligent BMS, which can quickly replace lead-acid/GEL batteries without changing the original installation structure. The lithium iron phosphate battery pack long life and is safe high performance, good sealing; with waterproof, dustproof, salt spray performance, adapt to most solar controllers and inverters, provide high-efficiency power supply for solar power generation systems, solar street lights, monitoring systems, ships and other electrical equipment energy, effectively reducing operation and maintenance costs.

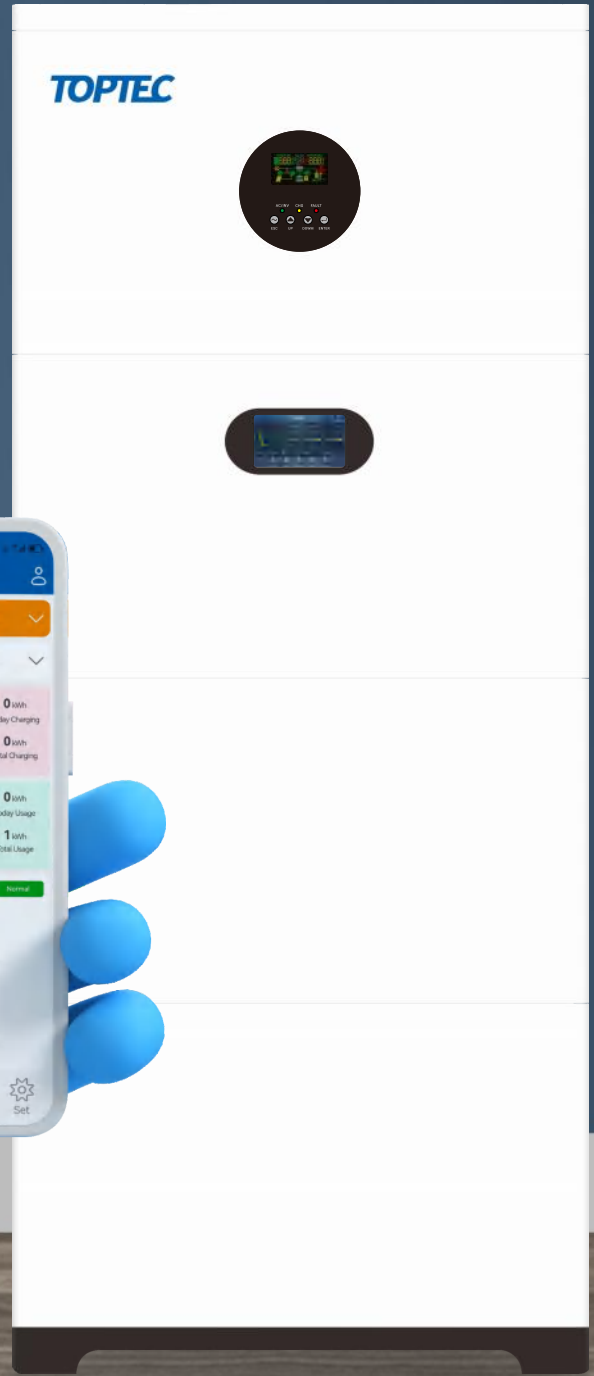
Technical Parameters

Specification	12V5Ah	12V8Ah	12V10Ah	12V20Ah	12V30Ah	12V50Ah
Capacity	64Wh	102Wh	128Wh	256Wh	384Wh	640Wh
Standard discharge current	2.5A	4A	5A	10A	15A	25A
Max. discharge current	5A	8A	10A	20A	30A	50A
Working voltage range	10-14.6V	10-14.6V	10-14.6V	10-14.6V	10-14.6V	10-14.6V
Standard Voltage	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V
Max. charging voltage	14.6V	14.6V	14.6V	14.6V	14.6V	14.6V
Discharge depth and life	>6000 times (0.5C@25°C) Energy retention rate ≥80%					
Working humidity	65±20%RH					
Operating temperature	-10~+50°C					
Working altitude	≤2500m					
Cooling method	Natural cooling					
International Protection	IP65					
Product Size	152*65*98mm	152*65*98mm	152*65*98mm	265*70*90mm	265*70*90mm	255*165*215mm
Net weight	0.9Kg	1.2Kg	1.5Kg	3.2Kg	4.5Kg	9Kg

Specification	12V100Ah	12V200Ah	12V300Ah	24V50Ah	24V100Ah	24V200Ah
Capacity	1.28kWh	2.56kWh	3.84kWh	1.28kWh	2.56kWh	5.12kWh
Standard discharge current	50A	50A	50A	25A	50A	50A
Max. discharge current	100A	100A	100A	50A	100A	100A
Working voltage range	10-14.6V	10-14.6V	10-14.6V	20-29.2V	20-29.2V	20-29.2V
Standard Voltage	12.8V	12.8V	12.8V	25.6V	25.6V	25.6V
Max. charging voltage	14.6V	14.6V	14.6V	29.2V	29.2V	29.2V
Discharge depth and life	>6000 times (0.5C@25°C) Energy retention rate ≥80%					
Working humidity	65±20%RH					
Operating temperature	-10~+50°C					
Working altitude	≤2500m					
Cooling method	Natural cooling					
International Protection	IP65					
Product Size	255*165*215mm	480*165*240mm	515*235*225mm	305*165*215mm	480*165*240mm	635*245*220mm
Net weight	16Kg	28Kg	45Kg	20Kg	30Kg	40Kg

L-ESS

Vertical Lithium Battery Energy Storage System



The ESS series product (Energy Storage System) is a high-performance off-grid energy storage system independently developed by us. It uses high-quality lithium iron phosphate batteries and is equipped with an intelligent BMS battery management system. It has long cycle life, high safety performance, and good sealing; High-frequency off-grid photovoltaic inverter, built-in MPPT controller, can provide efficient and reliable energy solutions for photovoltaic off-grid power generation systems, energy storage systems, household photovoltaic storage systems, and industrial and commercial energy storage systems.

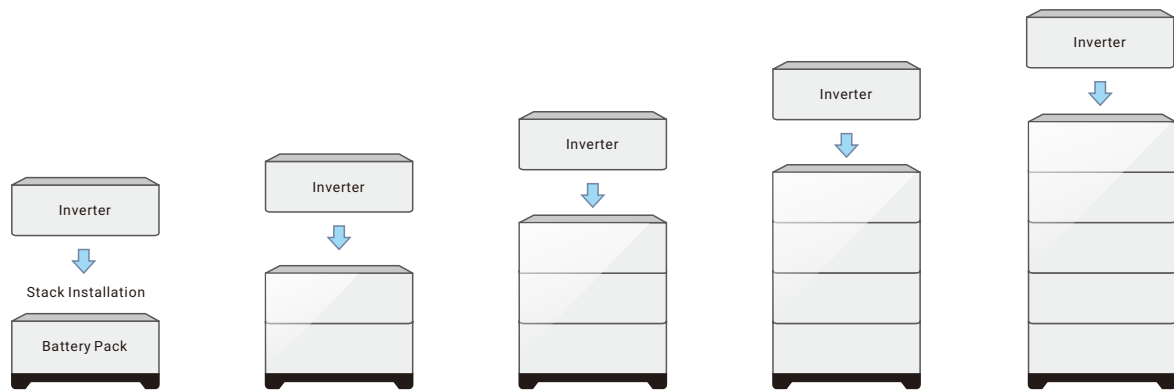
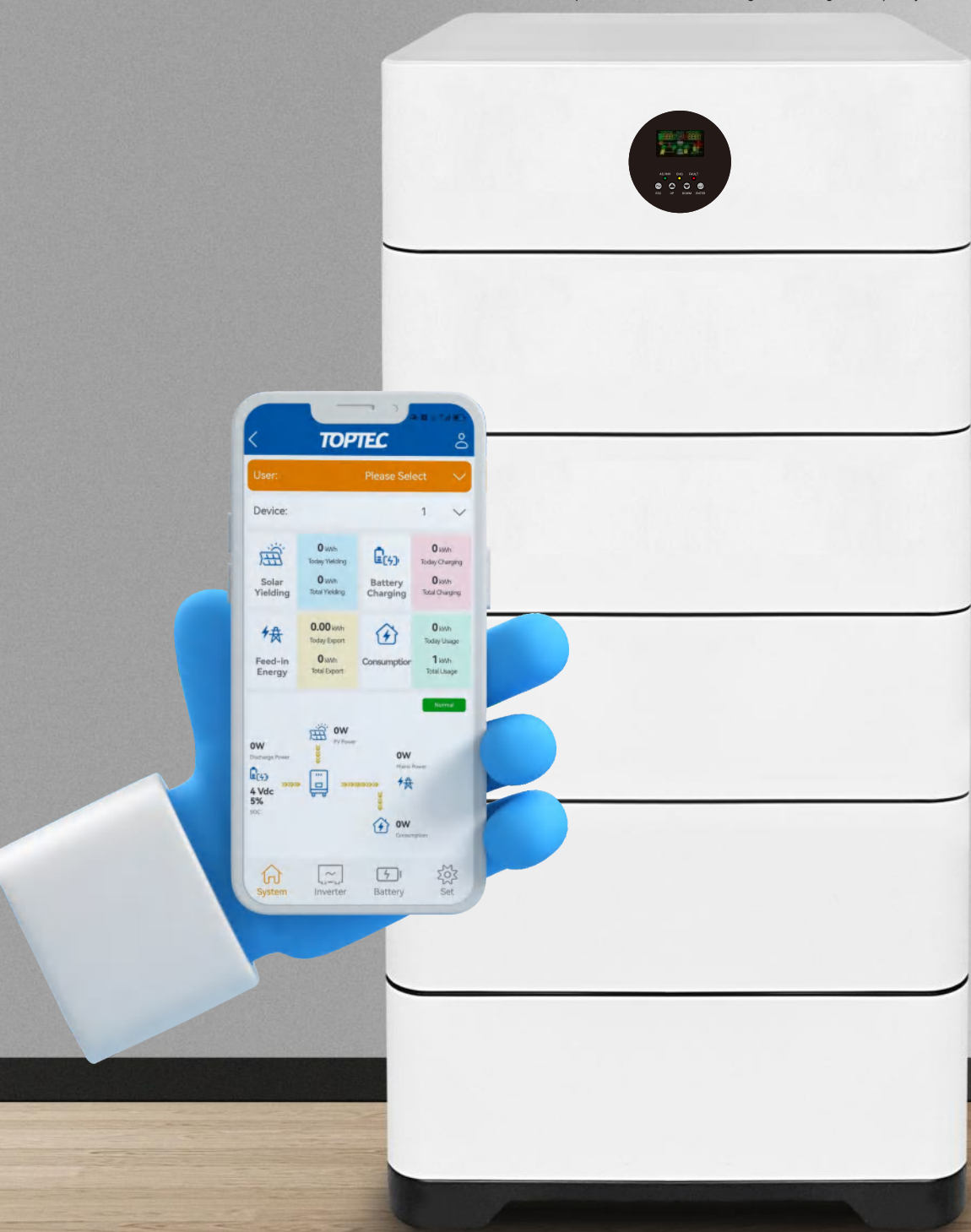
The system is equipped with a self-developed APP, supports IOS/Android mobile phones, remotely controls the charging and discharging of the battery pack, monitors the system operating data in real time, and quickly enters the troubleshooting work when the system fails, so as to restore the effective power supply more efficiently.

Model	L-ESS-10	L-ESS-15	L-ESS-20
Capacity	10.24kWh/5kW	15.36kWh/5kW	20.48kWh/5kW
Standard discharge current	50A	50A	50A
Max. discharge current	100A	100A	100A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A
Max. charging voltage	57.6V	57.6V	57.6V
Rated solar input voltage	360VDC		
MPPT tracking voltage range	120V-450V		
Max input voltage (VOC) at lowest temperature	500V		
Max input power	6000W		
Number of MPPT tracking paths	1Path		
DC input voltage range	42-60VDC		
Rated mains power input voltage	220VAC/230VAC/240VAC		
Grid power input voltage range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode)		
Grid input frequency range	45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz)		
Inverter output efficiency	94%(MAX)		
Inverter output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter mode)		
Inverter output frequency	50Hz±0.5 or 60Hz±0.5(Inverter mode)		
Inverter output waveform	Pure sine wave		
Grid output efficiency	>99%		
Max mains charging current	60A		
Max solar charging current	100A		
Max charging current (Grid+solar)	100A		
Optional mode	Grid priority/Solar priority/Battery priority		
Warranty	5~10Years		
Communication	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)		

*Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services

S-ESS

Stacked Lithium Battery Energy Storage System



Model	S-ESS-5	S-ESS-10	S-ESS-15	S-ESS-20
Capacity	5.12kWh/5kW	10.24kWh/5kW	15.36kWh/5kW	20.48kWh/5kW
Standard discharge current	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A	50A
Max. charging voltage	57.6V	57.6V	57.6V	57.6V
Rated solar input voltage	360VDC			
MPPT tracking voltage range	120V-450V			
Max input voltage (VOC) at lowest temperature	500V			
Max input power	6000W			
Number of MPPT tracking paths	1Path			
DC input voltage range	42-60VDC			
Rated mains power input voltage	220VAC/230VAC/240VAC			
Grid power input voltage range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode)			
Grid input frequency range	45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz)			
Inverter output efficiency	94%(MAX)			
Inverter output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter mode)			
Inverter output frequency	50Hz±0.5 or 60Hz±0.5(Inverter mode)			
Inverter output waveform	Pure sine wave			
Grid output efficiency	>99%			
Max mains charging current	60A			
Max solar charging current	100A			
Max charging current (Grid+solar)	100A			
Optional mode	Grid priority/Solar priority/Battery priority			
Warranty	5~10Years			
Communication	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)			

*Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services

C-ESS

Rack/Cabinet Lithium Battery Energy Storage System



The ESS series product (Energy Storage System) is a high-performance off-grid energy storage system independently developed by us. It uses high-quality lithium iron phosphate batteries and is equipped with an intelligent BMS battery management system. It has long cycle life, high safety performance, and good sealing; High-frequency off-grid photovoltaic inverter, built-in MPPT controller, can provide efficient and reliable energy solutions for photovoltaic off-grid power generation systems, energy storage systems, household photovoltaic storage systems, and industrial and commercial energy storage systems.

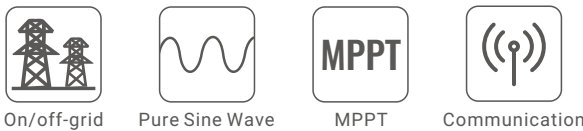
The system is equipped with a self-developed APP, supports IOS/Android mobile phones, remotely controls the charging and discharging of the battery pack, monitors the system operating data in real time, and quickly enters the troubleshooting work when the system fails, so as to restore the effective power supply more efficiently.

Model	C-ESS-5	C-ESS-10	C-ESS-15	C-ESS-20
Capacity	5.12KWh/5KW	10.24KWh/5KW	15.36KWh/5KW	20.48KWh/5KW
Standard discharge current	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A	50A
Max. charging voltage	57.6V	57.6V	57.6V	57.6V
Rated solar input voltage	360VDC			
MPPT tracking voltage range	120V-450V			
Max input voltage (VOC) at lowest temperature	500V			
Max input power	6000W			
Number of MPPT tracking paths	1Path			
DC input voltage range	42-60VDC			
Rated mains power input voltage	220VAC/230VAC/240VAC			
Grid power input voltage range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode)			
Grid input frequency range	45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz)			
Inverter output efficiency	94%(MAX)			
Inverter output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter mode)			
Inverter output frequency	50Hz±0.5 or 60Hz±0.5(Inverter mode)			
Inverter output waveform	Pure sine wave			
Grid output efficiency	>99%			
Max mains charging current	60A			
Max solar charging current	100A			
Max charging current (Grid+solar)	100A			
Optional mode	Grid priority/Solar priority/Battery priority			
Warranty	5~10Years			
Communication	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)			

*Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services

DK-PI

On/off-grid Solar Inverter



DK-PI series On/off-grid solar inverter has the function of segmented charging and discharging, backflow prevention and grid connection function. working without battery under special conditions. lithium battery activation function, which can be triggered by mains or solar. 4 charging modes: solar only, mains priority, solar priority and solar&mains hybrid charging. 2 output modes: mains bypass and inverter output, with UPS function. Adopting full-digital double closed loop control, combined with advanced SPWM. Advanced MPPT technology with efficiency of 99.9%. LCD screen and three LED lights can clearly indicate the status and data. Intelligent and variable-speed fan, efficiently dissipate heat and extend system life. Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection and so on.

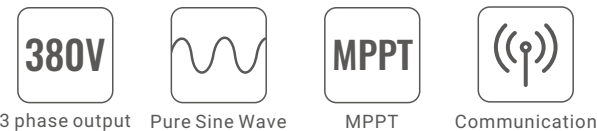
Technical Parameters

PRODUCT BASIC PARAMETERS	
Model	DK-PI
Rated power	5500W
Standard battery voltage	Lead-acid Battery or Lithium Battery 48VDC
Battery voltage range	40VDC~60VDC ± 0.6VDC(Undervoltage/Shutdown Voltage/Overvoltage /Overvoltage Recovery Warning)
Hybrid charging MAX. charging current	100A
Installation method	Wall mount
SOLAR INPUT PARAMETERS	
max. solar open-circuit voltage	500VDC
Solar working voltage range	120-500VDC
MPPT voltage range	120-450VDC
MAX. solar input current	22A
MAX. solar input power	6000W
MAX. solar charging current	100A
AC INPUT PARAMETERS	
Mains max charging current	60A
Rated input voltage	220/260VAC
Input voltage range	UPS Mains Mode: (170VAC~280VAC)±2% APL Generator Mode: (90VAC-280VAC)±2%
Frequency	50Hz/ 60Hz (Automatic Detection)
Mains charging efficiency	>95%
Switch time (bypass and inverter)	10ms(Typical Value)
Max bypass overload current	40A
AC OUTPUT PARAMETERS	
Output waveform	Pure Sine Wave
Rated output voltage(vac)	230VAC 200/208/220/240VAC
Rated output power(va)	6600VA
Rated output powe(w)	5500W
Peak power	11000W(1~3s)
On-load motor capacity	4HP
Output frequency range(hz)	50Hz±0.3Hz/60Hz±0.3Hz
Maximum efficiency	>90%
No-load loss	Non Energy-saving Mode: ≤50W Energy-saving Mode: ≤25W (Manual Setup)
BASIC PARAMETERS	
Working temperature range	-25°C ~ 55°C
Storage temperature range	-25°C ~ 60°C
Humidity range	0~100%
Waterproof grade	IP65
Product size	556*345*182mm
Product weight	19.2Kg

DK-PT

Lithium battery
Communication

3 phase off-grid inverter



DK-PT series 3 phase off-grid inverter has the function of segmented charging and discharging,working without battery under special conditions.lithium battery activation function, which can be triggered by mains or solar.4 charging modes: solar only, mains priority, solar priority and solar&mains hybrid charging.2 output modes: mains bypass and inverter output, with UPS function.Adopting full-digital double closed loop control, combined with advanced SPWM.Advanced MPPT technology with efficiency of 99.9%.LCD screen and three LED lights can clearly indicate the status and data.Intelligent and variable-speed fan, efficiently dissipate heat and extend system life.Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection and so on.

Technical Parameters

PRODUCT BASIC PARAMETERS			
Model	DK-PT8K	DK-PT10K	DK-PT12K
Rated output power	8000W	10000W	12000W
Maximum peak power	16000W	20000W	24000W
Rated output voltage	400Vac(3L+N)		
Load motor capacity	5HP	6HP	6HP
Rated frequency	50/60Hz		
Output waveform	Pure sine wave		
Switching Time	10ms(Typical)		
Battery Type	Lithium-ion battery pack/Lead-acid battery/Customized		
Rated battery voltage	48VDC		
Voltage range	48VDC~60VDC ± 0.6VDC(Undervoltage alarm/shutdown voltage/overvoltage alarm/overvoltage recovery...)		
MAX. Soalr charging current	180A	220A	260A
MAX. mains charging current	100A	120A	120A
MAX. hybrid charging current	180A	220A	260A
SOLAR PARAMETERS			
Number of MPPT	2 Path		
MAX. input power	6000W+6000W	7500W+7500W	9000W+9000W
MAX. input current	22A+22A		
MAX. open circuit voltage	800VDC+800VDC		
MPPT operating voltage range	200~600VDC		
AC MAINS/GENERATOR PARAMETERS			
Input voltage range	Phase voltage170~280V Line voltage305~485V		
Input frequency range	50/60Hz		
Bypass overload current	63A		
INVERTER EFFICIENCY			
MPPT tracking efficiency	99.9%		
Battery inverter MAX. efficiency	≥92%		
COMMUNICATION method			
Built-in interface	RS485 / CAN / USB / Dry contact		
External module (optional)	Wi-Fi / GPRS		
BASIC PARAMETERS			
Product size	620*445*130mm		
Product weight	27kg		
Protection level	IP20 Only supports indoor installation		
Ambient temperature	-10~55℃, >45℃ Derate		
Noise	<60dB		
Cooling method	Air cooling		

DK-PC

Lithium battery
Communication

Rack/Cabinet Solar Inverter

220V

Single phase
output

Pure Sine Wave

MPPT

MPPT

Communication

4U

Standard



PARAMETER			
Model	DK-PC3200	DK-PC5500	DK-PC8000
Rated power	3200W	5500W	8000W
Standard voltage	24VDC	48VDC	
Installation	Cabinet/rack installation		
solar PARAMETER			
Working model	MPPT		
Rated solar input voltage	360VDC		
MPPT tracking voltage range	120-450V		
Max input voltage (VOC) at lowest temperature	500V		
Max input power	4000W	6000W	8000W
Number of MPPT tracking paths	1 Path		2 Path
INPUT			
DC input voltage range	21-30VDC		42-60VDC
Rated mains power input voltage	220/230/240VAC		
Grid power input voltage range	170~280VAC(UPS model)/120~280VAC(inverter model)		
Grid input frequency range	40~55Hz(50Hz) 55~65Hz(60Hz)		
OUTPUT			
Inverter	Output efficiency	94%	
	Output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter model)	
	Output frequency	50Hz±0.5 or 60Hz±0.5(Inverter model)	
Grid	Output efficiency	≥99%	
	Output voltage range	Following input	
	Output frequency range	Following input	
Battery mode no-load loss		≤1%(At rated power)	
Grid mode no-load loss		≤0.5% Rated power(the charger of grid power doesn't work)	
BATTERY			
Battery type	Lead acid battey	Equalizing charging 13.8V Floating charging 13.7V (single battery voltage)	
	Customized battery	The parameter can be set according to customers' requirement (Use different types of battery by setting the panel)	
Max mains charging current		60A	80A
Max solar charging current		100A	150A
Max charging current(Grid+solar)		100A	150A
Charging method		Three-stage (constant current, constant voltage, float charge)	
PROTECTED MODE			
Battery low voltage range		Battery low voltage protection value +0.5V (Single battery voltage)	
Battery voltage protection		Factory default: 10.5V (Single battery voltage)	
Battery over voltage alarm		Equal charging voltage +0.8V (Single battery voltage)	
Battery over voltage protection		Factory default: 17V (Single battery voltage)	
Battery over voltage recovery voltage		Battery over voltage protection value -1V (Single battery voltage)	
Overload /short circuit protection		Automatic protection (battery mode), circuit breaker or fuse (Grid mode)	
Temperature protection		≥90℃ off output	
PERFORMANCE PARAMETERS			
Conversion time		≤4ms	
Cooling method		Intelligent cooling fan	
Working temperature		-10~40℃	
Storage temperature		-15~60℃	
Altitude		2000m(>2000m altitude need derating)	
Humidity		0~95% (No condensation)	
Product size	440*484*178mm	440*484*178mm	440*484*178mm
Package size	555*500*235mm	555*500*235mm	555*500*235mm
Net weight	8.5kg	9.5kg	17kg
Gross weight	9.5kg	10.5kg	19kg

DK-PW

Lithium battery
Communication

Wall-mount Solar Inverter

220V

Single phase
output

Pure Sine Wave

MPPT

MPPT

Communication



PARAMETER				
Model	DK-PW32K	DK-PW55K	DK-PW80K	DK-PW110K
Rated power	3200W	5500W	8000W	11000W
Standard voltage	24VDC	48VDC		
Installation	Wall mount installation			
solar PARAMETER				
Working model	MPPT			
Rated solar input voltage	360VDC			
MPPT tracking voltage range	120-450V			
Max input voltage (VOC) at lowest temperature	500V			
Max input power	4000W	6000W	8000W	
Number of MPPT tracking paths	1 Path		2 Path	
INPUT				
DC input voltage range	21-30VDC		42-60VDC	
Rated mains power input voltage	220/230/240VAC			
Grid power input voltage range	170~280VAC(UPS model)/120~280VAC(inverter model)			
Grid input frequency range	40~55Hz(50Hz) 55~65Hz(60Hz)			
OUTPUT				
Inverter	Output efficiency	94%		
	Output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter model)		
	Output frequency	50Hz±0.5 or 60Hz±0.5(Inverter model)		
Grid	Output efficiency	≥99%		
	Output voltage range	Following input		
	Output frequency range	Following input		
Battery mode no-load loss		≤1%(At rated power)		
Grid mode no-load loss		≤0.5% Rated power(the charger of grid power doesn't work)		
BATTERY				
Battery type	Lead acid battey	Equalizing charging 13.8V Floating charging 13.7V (single battery voltage)		
	Customized battery	The parameter can be set according to customers' requirement (Use different types of battery by setting the panel)		
Max mains charging current		60A	80A	
Max solar charging current		100A	150A	
Max charging current(Grid+solar)		100A	150A	
Charging method		Three-stage (constant current, constant voltage, float charge)		
PROTECTED MODE				
Battery low voltage range		Battery low voltage protection value +0.5V (Single battery voltage)		
Battery voltage protection		Factory default: 10.5V (Single battery voltage)		
Battery over voltage alarm		Equal charging voltage +0.8V (Single battery voltage)		
Battery over voltage protection		Factory default: 17V (Single battery voltage)		
Battery over voltage recovery Voltage		Battery over voltage protection value -1V (Single battery voltage)		
Overload /short circuit protection		Automatic protection (battery mode), circuit breaker or fuse (Grid mode)		
Temperature protection		≥90℃ off output		
PERFORMANCE PARAMETERS				
Conversion time		≤4ms		
Cooling method		Intelligent cooling fan		
Working temperature		-10~40℃		
Storage temperature		-15~60℃		
Altitude		2000m(>2000m altitude need derating)		
Humidity		0~95% (No condensation)		
Product Size	420*290*110mm	460*304*110mm	520*450*200mm	
Package Size	486*370*198mm	526*384*198mm	580*510*260mm	
Net weight	8.5kg	9.5kg	17kg	
Gross weight	9.5kg	10.5kg	19kg	

Solar Inverter

DK-PW/PC PLUS+
Lithium battery Communication Parallel Use

4U

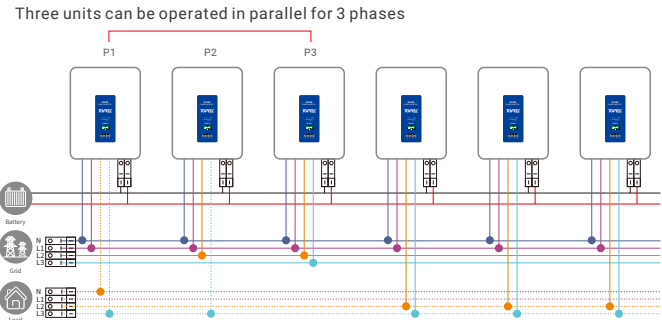
Cabinet/Rack installation

Wall mounting

Pure Sine Wave

MPPT

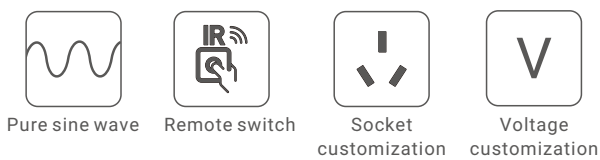
Communication



PARAMETER		
Model	DK-PC 5000plus	DK-PW 5000plus
Rated power	5000W	
Standard voltage	48VDC	
Installation	Cabinet/rack installation	Wall mount installation
solar PARAMETER		
Working model	MPPT	
Rated solar input voltage	360VDC	
MPPT tracking voltage range	120-430V	
Max input voltage (VOC) at lowest temperature	450V	
Max input power	5500W	
Number of MPPT tracking paths	1 Path	
INPUT		
DC input voltage range	42-60VDC	
Rated mains power input voltage	208/220/230/240VAC	
Grid power input voltage range	90~280VAC(UPS model)/170~280VAC(inverter model)	
Grid input frequency range	40~70Hz	
OUTPUT		
Inverter	Output efficiency	94%
	Output voltage	208VAC±2%/220VAC±2%/230VAC±2%/240VAC±2%(Inverter model)
	Output frequency	50Hz±0.5 or 60Hz±0.5(Inverter model)
Grid	Output efficiency	≥99%
	Output voltage range	Following input
	Output frequency range	Following input
Battery mode no-load loss		≤1%(At rated power)
Grid mode no-load loss		≤0.5% Rated power(the charger of grid power doesn't work)
BATTERY		
Battery type	Lead acid battey	Equal charging voltage 56.6V Float voltage 54V
	Customized battery	The parameter can be set according to customers' requirement (Use different types of battery by setting the panel)
Max mains charging current		60A
Max solar charging current		80A
Max charging current(Grid+solar)		80A
Charging method		Three-stage (constant current, constant voltage, float charge)
PROTECTED MODE		
Battery low voltage alarm		Factory default setting: 44V
Battery low voltage protection		Factory default setting: 42V
Battery Over voltage Protection		61VDC
Overload power protection		Automatic protection (battery mode), circuit breaker or fuse (mains mode)
Inverter output short circuit protection		Automatic protection (battery mode), circuit breaker or fuse (mains mode)
Temperature protection		≥90℃ off output
PERFORMANCE PARAMETERS		
Parallel quantity		9PCS
Conversion time		≤4ms
Cooling method		Intelligent cooling fan
Working temperature		-10~40℃
Storage temperature		-15~60℃
Altitude		2000m(>2000m altitude need derating)
Humidity		0~95% (No condensation)
Product Size	440*484*178mm	460*304*110mm
Package Size	555*500*235mm	526*384*198mm
Net weight	8.5kg	9.5kg
Gross weight	9.5kg	10.5kg

DK-PA

Small pure sine waveinverter

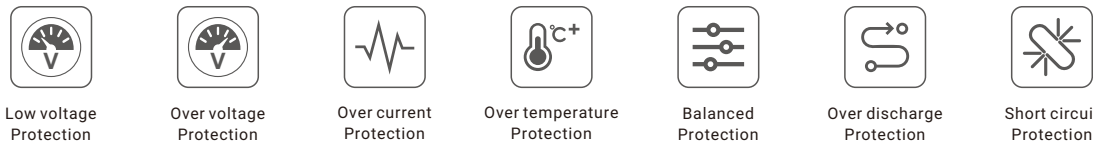


TOPTEC

PRODUCT BASIC PARAMETERS

Model		DKPA-300W	DKPA-500W	DKPA-1000W	DKPA-1500W	DKPA-2000W	DKPA-2500W	DKPA-3000W
Input	Input voltage	12/24/48VDC						
	12V DC voltage range	10~15.5VDC						
	24V DC voltage range	20~31VDC						
	48V DC voltage range	40~62VDC						
	Efficiency	>90%						
Output	Output voltage	100/110/120VAC or 220/230/240VAC						
	Rated power	300W	500W	1000W	1500W	2000W	2500W	3000W
	Instant power	600W	1000W	2000W	3000W	4000W	5000W	6000W
	Output waveform	Pure sine wave						
	Output frequency	50Hz or 60Hz						
	USB output	5V,1A						
	Waveform	≤3%						
Operating temperature		-10℃~+50℃						
Humidity		20%~90%RH						
Storage temperature		-30℃ ~+70℃						
Machine size mm		212*142*65	242*142*65	318*189*81	343*189*81	371*235*97	405*235*97	426*235*97
Net weight kg		0.8	1.0	2.1	2.3	3.7	4.5	5.1
Gross weight kg		1.0	1.2	2.5	3	4.5	5.3	6.1
Inner box size mm		275*160*115	295*160*115	400*230*150	440*230*140	490*290*180	490*290*180	490*290*165
Packing quantity (only)		10	10	4	4	2	2	2
Weight kg		11.05	12.76	10.87	12.72	9.53	11.21	12.81
Packing size mm		620*290*350	630*310*350	480*430*310	480*450*310	510*310*380	510*310*380	510*310*380
Packing volume m³		0.0629	0.0684	0.0640	0.0670	0.0601	0.0601	0.0601

Protection



Customized sockets



DK600

Portable Outdoor Power Supply

600W 576Wh



DK600 portable mobile power supply is a portable energy storage power supply that integrates multiple functions. It has built-in high-performance A-grade lithium iron phosphate batteries, high-quality BMS management system, and high-efficiency inverter conversion circuit. It can be used as a home, office, outdoor camping and emergency backup power supply. Mains or solar power available charging, can provide rated 220V/600W AC output, 5V/12V DC output, USB output, Type C, wireless output.

- Small, light weight, convenient
- Pure sine wave output,
- 0.3S quick start, High efficiency
- Support QC3.0 fast charging, support PD18-100W fast charging, 15W wireless charging
- LCD display, visualization of operating data

Model	DK600				
Rated Capacity	576WH				
Rated power	600W				
Charge and discharge parameters					
Operating temperature	0℃~40℃ (Charge) -10℃~40℃(Discharge)				
Support charging type	Grid charging/Solar charging				
Input voltage range	Grid input 100V/solar input 20V				
Input voltage	Grid input 100V/Solar input 20V				
Charging voltage	12V				
AC Max charging current	50V/5A				
Max charging power	100W				
Output type	AC	USB	Type-C	DC	Wireless charging
Output rated power	600W	QC3.0 18W	100W MAX	100W	15W
Frequency	50Hz/60 Hz±1HZ(Auto)				
Output voltage/current	110~230V/10A	5V/2.4A,5V/3A	5~20V/3.25A	12.5V 8A	12V/1.25A
Product Features					
Cooling method	cooling fan				
Running noise	≤5dB				
Protection	IP53				
Working humidity	65±20%RH				
Storage humidity	65±20%RH				
Product Information					
Product Size	265*200*195mm				
Package Size	365*325*298mm				
Net weight	4.9kg				
Gross weight	6.5kg				
Packing	Carton				

Protection



Low voltage Protection



Over voltage Protection



Over current Protection



Over temperature Protection



Balanced Protection



Over discharge Protection



Short circuit Protection

Customized sockets



Multifunction



U.S.



GFCI



Australia



U.K.



Lsrael



Switzerland



France



Germany



Japan



SouthAfrica

DK1200

Portable Outdoor Power Supply

1200W 1008Wh



DK1200 portable mobile power supply is a portable energy storage power supply that integrates multiple functions. It has built-in high-performance A-grade lithium iron phosphate batteries, high-quality BMS management system, and high-efficiency inverter conversion circuit. It can be used as a home, office, outdoor camping and emergency backup power supply. Mains or solar power available charging, can provide rated 220V/1200W AC output, 5V/12V DC output, USB output, Type C, wireless output.

- Small, light weight, convenient
- Pure sine wave output,
- 0.3S quick start, High efficiency
- Support QC3.0 fast charging, support PD18-65W fast charging, 15W wireless charging
- LCD display, visualization of operating data

Model	DK1200				
Rated Capacity	1008WH				
Rated power	1200W				
Charge and discharge parameters					
Operating temperature	0℃~40℃ (Charge) -10℃~40℃(Discharge)				
Support charging type	Grid charging/Solar charging				
Input voltage range	Grid input 100V/solar input 20~40V				
Input voltage	Grid input 100V/Solar input 20~40V				
Charging voltage	16.8V				
AC Max charging current	100V/10A				
Max charging power	550W				
Output type	AC	USB	Type-C	DC	Wireless charging
Output rated power	1200W	QC3.0 18W	65W MAX	100W	15W
Frequency	50Hz/60 Hz±1HZ(Auto)				
Output voltage/current	110~230V/10A	5V/2.4A,5V/3A	5~20V/3.25A	12.5V 8A	12V/1.25A
Product Features					
Cooling method	Cooling fan				
Running noise	≤5dB				
Protection	IP53				
Working humidity	65±20%RH				
Storage humidity	65±20%RH				
Product Information					
Product Size	370*245*275mm				
Package Size	455*325*368mm				
Net weight	13kg				
Gross weight	15kg				
Packing	Carton				

Protection



Low voltage Protection



Over voltage Protection



Over current Protection



Over temperature Protection



Balanced Protection



Over discharge Protection



Short circuit Protection

Customized sockets



Multifunction



U.S.



GFCI



Australia



U.K.



Lsrael



Switzerland



France



Germany



Japan



SouthAfrica



DK2000-3000 PRO

Portable Outdoor Power Supply

DK2000~3000 pro series portable mobile power supply is a portable energy storage power supply that integrates multiple functions. It has built-in high-performance A-grade lithium iron phosphate batteries, high-quality BMS management system, and high-efficiency inverter conversion circuit. It can be used as a home, office, outdoor camping and emergency backup power supply. Mains or solar power available charging, can provide rated 2000/3000W220VAC output, 5V/12V DC output, USB output, Type C, wireless output.

- Large capacity,High power
- Pure sine wave output,
- 0.3S quick start, High efficiency
- Support QC3.0 fast charging, support PD18-65W fast charging, 15W wireless charging
- LCD display, visualization of operating data

Model	DK2000 PRO	DK3000 PRO
Rated Capacity	2016Wh	3000Wh
Rated power	2000W	3200W

Charge and discharge parameters					
Operating temperature	0℃~40℃ (Charge) -10℃~40℃(Discharge)				
Support charging type	Grid charging/Solar charging				
Input voltage range	Grid input 85-250V/solar input 26~60V				
Input voltage	Grid input 250V/Solar input 26~60V				
Charging voltage	16.8V				
AC Max charging current	100V/10A				
Max charging power	1000W				
Output type	AC	USB	Type-C	DC	Wireless charging
Output rated power	2000~3200W	QC3.0 18W	65W MAX	100W	15W
Frequency	50Hz/60 Hz±1HZ(Auto)				
Output voltage/current	110~230V/10A	5V/2.4A,5V/3A	5~20V/3.25A	12.5V 8A	12V/1.25A

Product Features	
Cooling method	Cooling fan
Running noise	≤5dB
Protection	IP53
Working humidity	65±20%RH
Storage humidity	65±20%RH

Product Information	
Product Size	400*300*322mm
Package Size	435*355*352mm
Net weight	28kg
Gross weight	32kg
Packing	Carton

Protection	
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Low voltage Protection



Over voltage Protection



Over current Protection



Over temperature Protection



Balanced Protection



Over discharge Protection



Short circuit Protection

Customized sockets	
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Multifunction



U.S.



GFCI



Australia



U.K.



Lsrael



Switzerland



France



Germany



Japan



SouthAfrica



DK3000~5000

Power Supply

3-5kW 3-5kWh

- Large capacity,High power
- Pure sine wave output,
- LCD display, visualization of operating data

PARAMETER		
Model	DK3000	DK5000
Rated power	3200W	5000W
Capacity	3kWh	5.12kWh
solar PARAMETER		
Working model	MPPT	
Rated solar input voltage	360VDC	
MPPT tracking voltage range	120-450V	
Max input voltage (VOC) at lowest temperature	500V	
Max input power	4000W	6000W
Number of MPPT tracking paths	1 Path	
INPUT		
DC input voltage range	21-30VDC	42-60VDC
Rated mains power input voltage	220/230/240VAC	
Grid power input voltage range	170~280VAC(UPS model)/120~280VAC(inverter model)	
Grid input frequency range	40~55Hz(50Hz) 55~65Hz(60Hz)	
OUTPUT		
Inverter	Output efficiency	94%
	Output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter model)
	Output frequency	50Hz±0.5 or 60Hz±0.5(Inverter model)
Grid	Output efficiency	≥99%
	Output voltage range	Following input
	Output frequency range	Following input
Battery mode no-load loss		≤1%(At rated power)
Grid mode no-load loss		≤0.5% Rated power(the charger of grid power doesn't work)
BATTERY		
Battery type	Lead acid battey	Equalizing charging 13.8V Floating charging 13.7V (single battery voltage)
	Customized battery	The parameter can be set according to customers' requirement (Use different types of battery by setting the panel)
Max mains charging current		60A
Max solar charging current		80A
Max charging current(Grid+solar)		80A
Charging method		Three-stage (constant current, constant voltage, float charge)
PROTECTED MODE		
Battery low voltage alarm		Factory default setting: 44V
Battery low voltage protection		Factory default setting: 42V
Battery Over voltage Protection		61VDC
Overload power protection		Automatic protection (battery mode), circuit breaker or fuse (mains mode)
Inverter output short circuit protection		Automatic protection (battery mode), circuit breaker or fuse (mains mode)
Temperature protection		≥90℃ off output
PERFORMANCE PARAMETERS		
Conversion time		≤4ms
Cooling method		Intelligent cooling fan
Working temperature		-10~40℃
Storage temperature		-15~60℃
Altitude		2000m(>2000m altitude need derating)
Humidity		0~95% (No condensation)
Product Size	500*300*340mm	500*300*340mm
Package Size	600*400*440mm	600*400*440mm
Net weight	42kg	55kg
Gross weight	48kg	65kg