



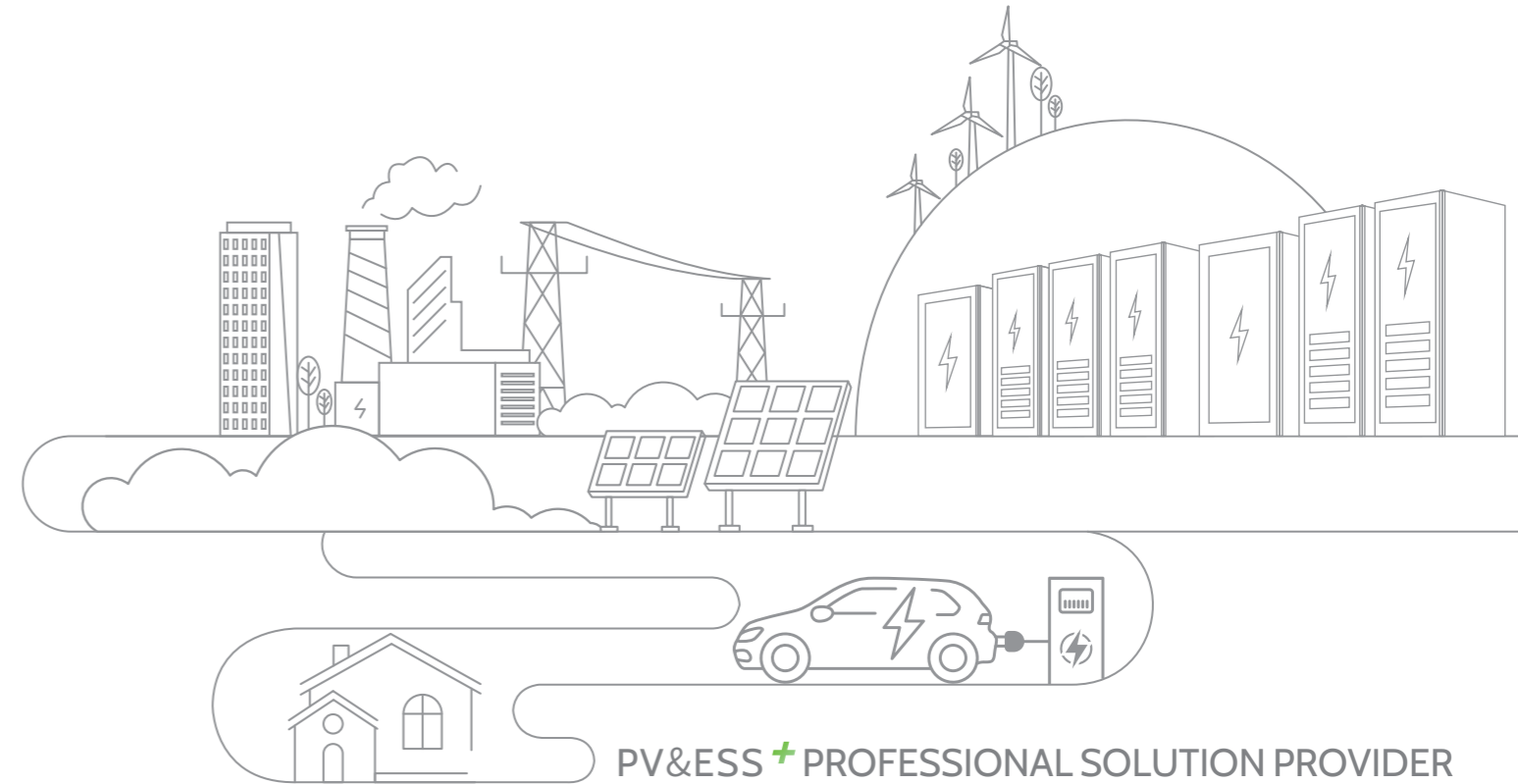
ZHEJIANG DINGKE ENERGY TECHNOLOGY CO., LTD

📍 Wenzhou Daqiao Industrial Park, Yueqing , Zhejiang, China

☎ +86-18167398877

✉ info@dktoptec.com

🌐 www.dktoptec.com www.dktoptec.cn



I&C ESS | Household ESS | Lithium Battery Pack | Hybrid Inverter
ODM/OEM

Off grid power station | Microgrid | Solar& Storage & EV charger
EPC & Installation services

ZHEJIANG DINGKE ENERGY TECHNOLOGY CO., LTD

About us

Zhejiang Dingke Energy Technology Co., Ltd. (TOPTEC Energy) is a professional manufacturer specializing in energy storage systems and inverters, with independent R&D and production teams.

Main Products:

- I&C energy storage system
- Household energy storage system
- On/Off Grid solar energy storage system
- High/low voltage lithium battery pack
- Hybrid inverter

From BMS design to battery pack development and system integration, we offer full-cycle OEM/ODM services, covering product design, solution development, and production. Products comply with ISO9001, UN38.3, MSDS, CE, FCC, RoHS, and other international standards.

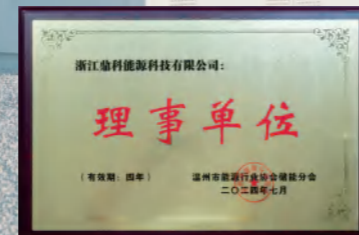
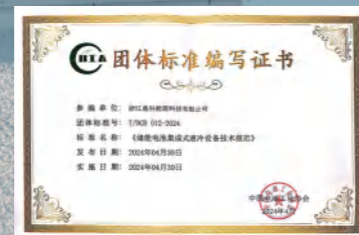
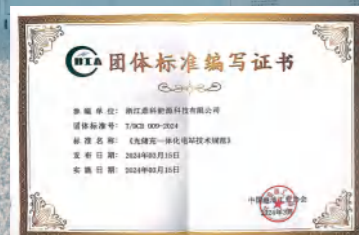
Applications:

Solar storage, off-grid systems, micro-grids, household energy storage, Solar&EV charging stations, communication base station, data center backup, modular storage. We have established a complete management system with modern, intelligent operations. Experienced R&D and technical teams ensure strict control across production, process, quality management, and after-sales service — delivering reliable performance and consistent quality.

Market distribution:

We have currently established photovoltaic energy storage projects of various specifications in Africa, the Middle East, Central Asia, Southeast Asia, and South America, and are continuously expanding projects to other countries and regions

TOPTEC Energy — Committed to excellence in energy solutions. Empowering global green transition and contributing to carbon neutrality through innovative, sustainable technology.



DKF

I&C Energy Storage System - Air cooling



TOP brand battery cells
Quality guaranteed



The PACK+ cabinet features dual fire protection
Ensuring a safer system



EMS intelligent control,
Integration of PV & B-ESS & Generator



Flexible deployment, easy wiring,
Greater convenience



Air-cooled system, strong adaptability,
High compatibility, and convenient maintenance



Both ON/OFF grid applications
Automatically and intelligently

The DKF air-cooled industrial and commercial energy storage system stands out for its energy efficiency, compact footprint, high energy density, and robust environmental adaptability. This integrated system combines a power conversion system (PCS), energy management system (EMS), battery management system (BMS), lithium-ion battery racks, a fire suppression system, electrical components, industrial-grade air conditioning, and safety auxiliaries within a single cabinet.

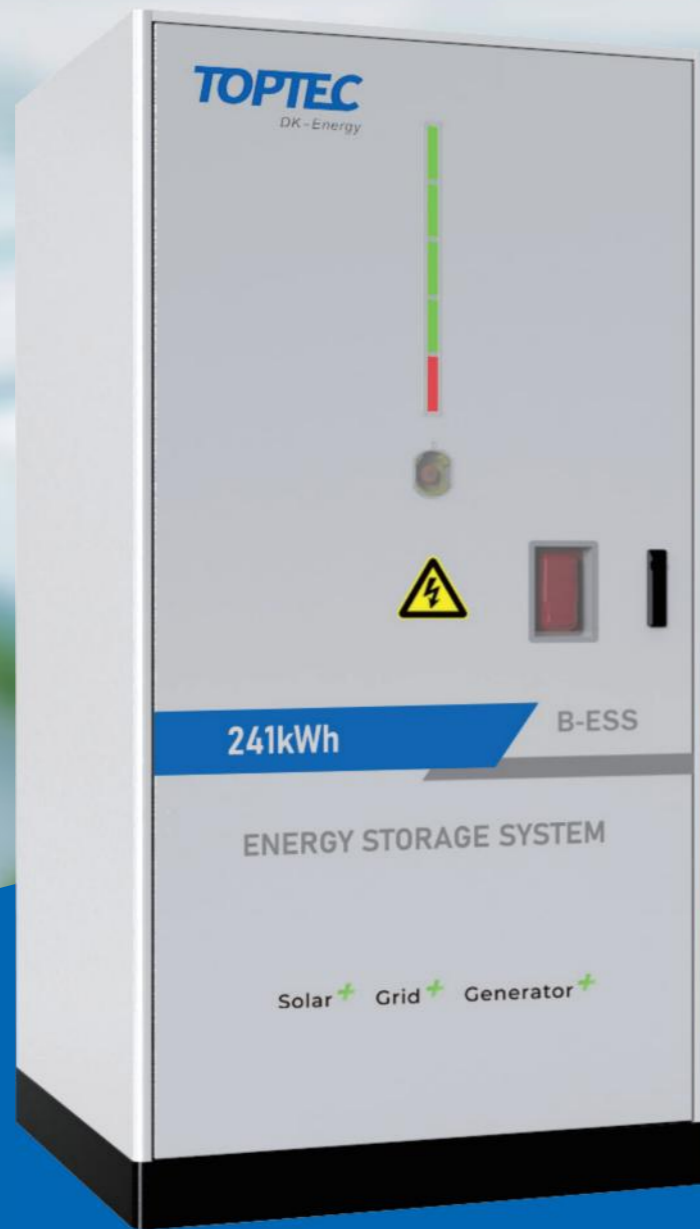
It offers broad scenario compatibility, featuring quick and user-friendly grid connection. The system supports simple parallel expansion with multiple units and covers a power range of 130 kW to 2,056 kW for both on-grid and off-grid applications. The EMS enables local autonomous operation with multiple mode selections, supporting operational strategies such as PV + storage, PV + storage + diesel generator, and PV + storage + EV charging.

Technical Specifications

Model		DKF-257
DC side	Battery cell type	LFP 3.2V/314Ah
	Battery system string	1P256S
	System capacity	257kWh
	Rated voltage	819.2VDC
	Voltage range	691-921VDC
AC side On grid	Rated power	130kW
	Rated frequency	50/60Hz
	Rated current	189A
	Rated grid voltage	380/400VAC
	Grid voltage range	360-420VAC
	Adjustable range of PF	-1(Speed-up)~-1(Delay)
AC side Off grid	THDi	<3%(Rated power)
	Rated power	130kW
	Rated frequency	50/60Hz
	Rated current	189A
	AC voltage range	360-420VAC
On/Off Grid	THDi	<3%(Rated power)
	STS(optional)	Standard: 240~500kW(Customized > 1MW solution)
System parameters	System efficiency	MAX. efficiency 88% @0.5C / 1 Charge 1 Discharge
	System lifespan	>8000Times(0.5C@25°) Energy retention rate ≥80%
	Wiring method	AC bottom entry/3-phase 4-wire(3L+N+PE)
	Charge & discharge rate	0.5CP
	Thermal management method	Intelligent air-cooled air conditioner
	Communication protocol	CAN/Eth/RS485(4G Optional)
	Fire protection system	Aerosol & Perfluorohexanone
	IP rating	IP54
	Product size	1550*1268.5*2185mm
	Product weight	2800kg
Environmental Requirements	Operating temperature range	0°C~+50°C
	Operating humidity range	0~95%RH(No condensation)
	Operating altitude	2000m (>2000m Derating)
Certification		PACK:CE ROHS Equipment:UN38.3 MSDS
Warranty		5 Years

DKG

I&C Energy Storage Cluster - Air cooling



TOP brand battery cells
Quality guaranteed



The PACK+ cabinet features dual fire protection
Ensuring a safer system



EMS intelligent control,
Integration of PV & B-ESS & Generator



Flexible deployment, easy wiring,
Greater convenience



Air-cooled system, strong adaptability,
High compatibility, and convenient maintenance

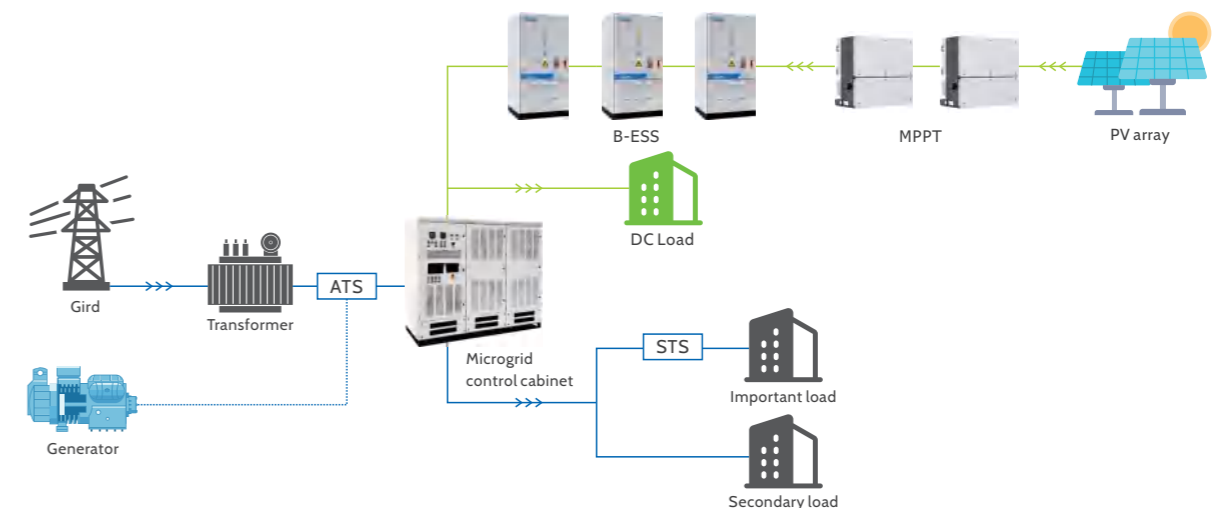


Both ON/OFF grid applications
Automatically and intelligently

The DKG air-cooled I&C energy storage battery cluster is an energy storage device designed specifically for industrial and commercial energy storage systems. With its independent battery cluster design, it allows for flexible configuration of industrial and commercial systems. It supports parallel operation of multiple clusters and can be flexibly integrated into DC-coupled and AC-coupled PV and energy storage systems. The device features energy efficiency, small footprint, high energy density, and strong environmental adaptability.

Technical Specifications

Model	DKG-225	DKG-241	
DC Side	Rated capacity	225kWh	241kWh
	Cell type	LFP 3.2V/314Ah	LFP 3.2V/314Ah
	Battery system string	1P24S	1P240S
	PACK specification	51.2V314Ah	51.2V314Ah
	NO. of PACKs	14 PCS	15 PCS
	Nominal voltage	716.8VDC	768VDC
	Voltage range	604-806VDC	691-921VDC
	Standard charge/discharge current	150A	150A
System parameters	System efficiency	MAX. efficiency 88% @0.5C / 1 Charge 1 Discharge	
	System lifespan	>8000Times(0.5C@25°) Energy retention rate ≥80%	
	Wiring method	DC bottom entry	
	Charge & discharge rate	0.5CP	
	Thermal management method	Intelligent air-cooled air conditioner	
	Communication protocol	CAN/Eth/RS485(4G Optional)	
	Fire protection system	Aerosol & Perfluorohexanone	
	IP rating	IP54	
	Product size	1095*1210*2120mm	
	Product weight	2050kg	
	Environmental Requirements	Operating temperature range	0°C~+50°C
Operating humidity range		0~95%RH(No condensation)	
Operating altitude		2000m (>2000m Derating)	
Certification	PACK:CE ROHS Equipment:UN38.3 MSDS		
Warranty	5 Years		



DKJ

Container Energy Storage System - Air cooling



The DKJ air-cooled container energy storage battery is an energy storage device designed specifically for industrial and commercial energy storage systems. With its independent battery cluster design, it allows for flexible configuration of industrial and commercial systems. It supports parallel operation of multiple clusters and can be flexibly integrated into DC-coupled and AC-coupled photovoltaic and energy storage systems. The device features energy efficiency, small footprint, high energy density, and strong environmental adaptability.

Technical Specifications

Model		DKJ-1M	DKJ-1.2M
DC Side	Rated capacity	1060kWh	1215kWh
	Cell type	LFP 3.2V/314Ah	LFP 3.2V/314Ah
	Battery system string	4P264S	5P242S
	PACK specification	70.4V314Ah	70.4V314Ah
	NO. of PACKs	48 PCS	55 PCS
	Nominal voltage	844.8VDC	774.4VDC
	Voltage range	680-950VDC	680-950VDC
	Standard charge/discharge current	200A	200A
System parameters	System efficiency	MAX. efficiency 88% @0.5C / 1 Charge 1 Discharge	
	System lifespan	>8000Times(0.5C@25°) Energy retention rate ≥80%	
	Wiring method	DC bottom entry	
	Charge & discharge rate	0.5CP	
	Thermal management method	Intelligent air-cooled air conditioner	
	Communication protocol	CAN/Eth/RS485(4G Optional)	
	Fire protection system	Aerosol & Perfluorohexanone	
	IP rating	IP54	
	Product size	3048*2438*2591mm	
	Product weight	9500kg	10500kg
Environmental Requirements	Operating temperature range	0°C ~ +50°C	
	Operating humidity range	0-95%RH(No condensation)	
	Operating altitude	2000m (>2000m Derating)	
Certification	PACK:CE ROHS UN38.3 MSDS		
Warranty	5 Years		



TOP brand battery cells
Quality guaranteed



The PACK+ cabinet features dual fire protection
Ensuring a safer system



EMS intelligent control,
Integration of PV & B-ESS & Generator



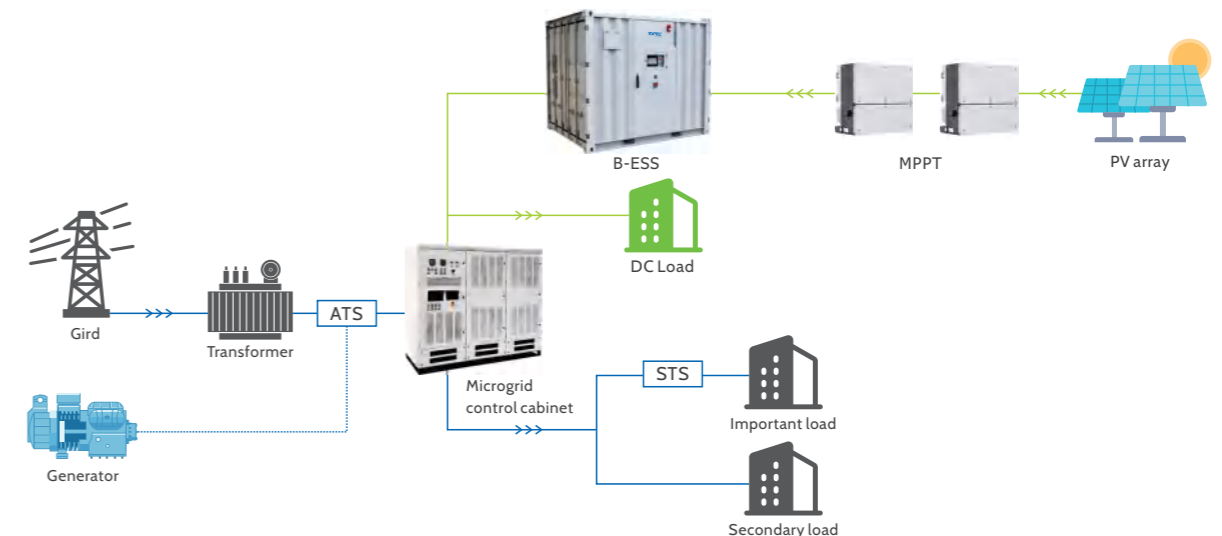
Flexible deployment, easy wiring,
Greater convenience



Air-cooled system, strong adaptability,
High compatibility, and convenient maintenance

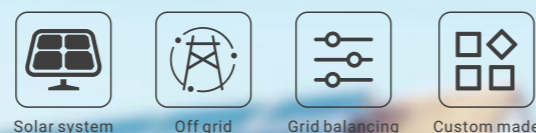


Both ON/OFF grid applications
Automatically and intelligently



DKP

ALL IN ONE System



TOP brand battery cells
Quality guaranteed



The PACK+ cabinet features dual fire protection
Ensuring a safer system



Built-in hybrid inverter
Integration of PV & B-ESS & Generator



Flexible deployment, easy wiring,
Greater convenience



Air-cooled system, strong adaptability,
High compatibility, and convenient maintenance



Both ON/OFF grid applications
Automatically and intelligently

DKP Series ALL IN ONE 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, hybrid inverter/PCS, BMS, lithium battery, high-voltage control box, fire protection system, electrical system and safety auxiliary system.

Technical Specifications

Model	DKP-20	DKP-30	DKP-50
System specification	20kW/51.2kWh	30kW/61.44kWh	50kW/107kWh
System battery DC voltage	512V	614V	716V
Battery voltage range	432-576VDC	490-690VDC	582-806VDC
Cell type	LFP 3.2V/100Ah	LFP 3.2V/100Ah	LFP 3.2V/150Ah
Single PACK configuration	102.4V100Ah/10.24kWh	102.4V100Ah/10.24kWh	102.4V150Ah/15.36kWh
Number of system PACKs	5PCS	6PCS	7PCS
Total system capacity	51.2kWh	61.44kWh	107kWh
Inverter rated power	20kW	30kW	50kW
MAX. PV input power	26kW	39kW	65kW
Charge and discharge rate	≥0.5C	≥0.5C	≥0.5C
Rated grid voltage	380V AC		
Rated grid frequency	50/60Hz ±5Hz		
Battery cycle life	>6000 times (0.5C@25°C) Energy retention rate ≥80%		
System efficiency/discharge depth	MAX efficiency 97% /DOD90%		
Thermal management	Intelligent air cooling		
Firefighting	PACK aerosol/cabinet aerosol		
Control method	Local control system		
Operating mode	On/off-grid		
Communication	CAN/RS485/WiFi		
Access method	AC bottom entry/3-phase 4-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)		
IP rating	IP54		
Product size	1000*1106*1640mm	1000*1106*1640mm	1100*1205*2200mm
Product weight	850kg	950kg	1200kg
Certification	PACK:CE ROHS Equipment:UN38.3 MSDS		
Warranty	5 Years		

DKL

Vertical Energy Storage Lithium Battery



DKL series household energy storage use high-quality square aluminum-cased lithium iron phosphate cells and are equipped with intelligent BMS. long cycle 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 hybrid 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 Specifications

Model	DKL-5	DKL-10	DKL-15	DKL-16
System specification	51.2V100Ah	51.2V200Ah	48V314Ah	51.2V314Ah
Battery combination	Parallel 3-layer stackable	Up to 10pcs in parallels	Up to 10pcs in parallels	Up to 10pcs in parallels
Battery pack capacity	5.12kWh	10.24kWh	15.07kWh	16.07kWh
Standard discharge current	50A	100A	140A	140A
MAX. discharge current	100A	105A	140A	140A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	40.5-54VDC	43.2-57.6VDC
Standard voltage	51.2VDC	51.2VDC	48VDC	51.2VDC
MAX. charging current	50A	50A	140A	140A
MAX. charging voltage	57.6V	57.6V	54VDC	57.6VDC
Discharge depth and life	>6000 times (0.5C@25°C) Energy retention rate ≥80%			
Working humidity	65±20%RH			
Operating temperature	0~+40°C			
Working altitude	≤2500m			
Firefighting	Aerosol PACK 12g			
Cooling method	Natural cooling			
Installation method	Vertical installation			
IP rating	IP20			
Warranty	5~10Years			
Communication	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)			
Certification	CE ROHS FCC UN38.3 MSDS ISO9001			
Product size	370*600*160mm	500*988*176mm	895*520*280mm	
Package size	430*660*220mm	560*1050*230mm	980*600*460mm	
Net weight	45kg	92kg	119kg	125kg
Gross weight	51kg	105kg	137kg	143kg

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



TOP brand battery cells
Quality guaranteed



The PACK+ cabinet features dual fire protection
Ensuring a safer system



Compatible with communication
of most brand inverters



Touch screen design,
convenient interaction

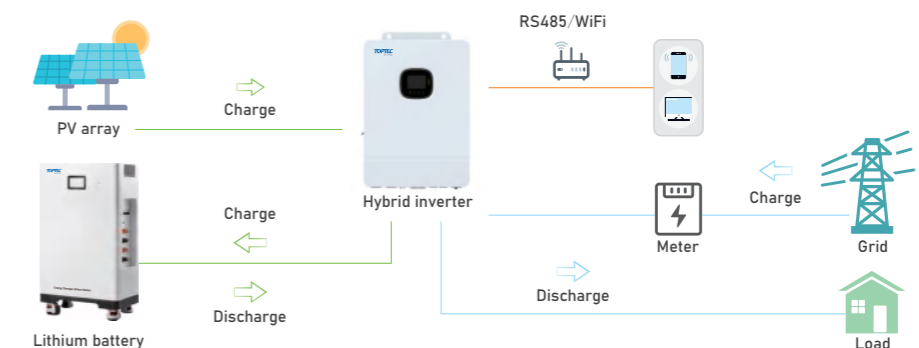


Support customization of Bluetooth
and WiFi communication



Support OEM/ODM

Operation diagram of household photovoltaic energy storage system



DKM

Power Wall Energy Storage Lithium Battery



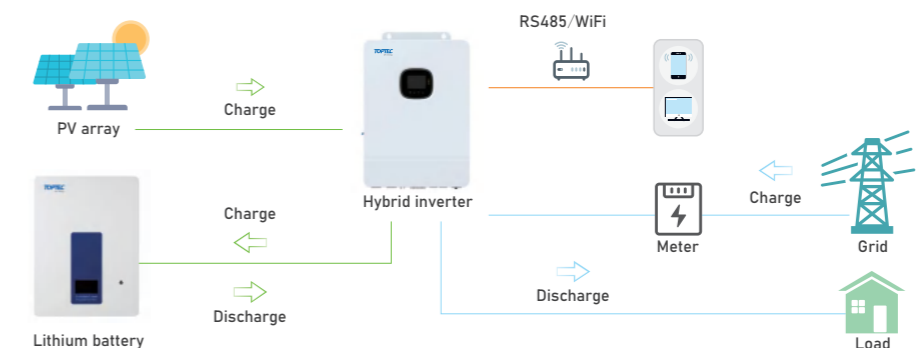
DKM series household energy storage use high-quality square aluminum-cased lithium iron phosphate cells and are equipped with intelligent BMS. long cycle life, high safety performance, beautiful appearance, free combination, and easy installation. The battery pack is equipped with a touch LCD display to visualize operating data. Compatible with most brands of hybrid 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 Specifications

Model	DKM-2.5		DKM-5		DKM-10	
System specification	25.6V100Ah	51.2V50Ah	48V100Ah	51.2V100Ah	48V200Ah	51.2V200Ah
Cells combination	8S1P	16S1P	15S1P	16S1P	15S1P	16S1P
Battery pack capacity	2.56kWh	2.56kWh	4.8kWh	5.12kWh	9.6kWh	10.24kWh
Standard discharge current	50A	50A	50A	50A	100A	100A
MAX. discharge current	100A	100A	100A	100A	105A	105A
Working voltage range	20-29.2VDC	43.2-57.6VDC	40.5-54VDC	43.2-57.6VDC	40.5-54VDC	43.2-57.6VDC
Standard Voltage	25.6VDC	51.2VDC	48VDC	51.2VDC	48VDC	51.2VDC
MAX. charging current	100A	50A	100A	100A	105A	105A
MAX. charging voltage	29.2V	57.6V	54V	57.6V	54V	57.6V
Discharge depth and life	>6000 times (0.5C@25°C) Energy retention rate ≥80%					
Working humidity	65±20%RH					
Operating temperature	0~+40°C					
Working altitude	≤2500m					
Firefighting	Aerosol PACK 12g					
Cooling method	Natural cooling					
Installation method	Wall-mounted installation					
IP rating	IP20					
Warranty	5~10Years					
Communication	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)					
Certification	CE ROHS FCC UN38.3 MSDS ISO9001					
Product size	440*460*170mm		440*585*170mm		540*800*170mm	
Package size	500*520*230mm		500*630*240mm		600*860*230mm	
Net weight	26.5kg	30kg	42kg	46kg	80kg	85kg
Gross weight	32kg	36kg	50kg	54kg	86kg	92kg

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

Operation diagram of household photovoltaic energy storage system



DKS

Stacked Energy Storage Lithium Battery



TOP brand battery cells
Quality guaranteed



The PACK+ cabinet features dual fire protection
Ensuring a safer system



Compatible with communication
of most brand inverters



Touch screen design,
convenient interaction



Support customization of Bluetooth
and WiFi communication



Support OEM/ODM

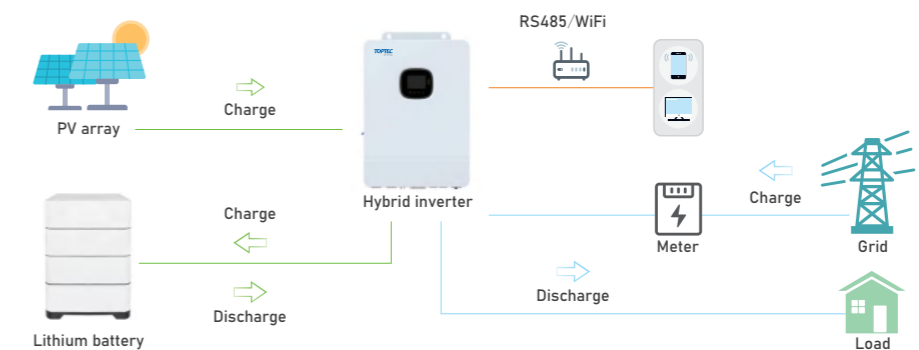
DKS series household energy storage use high-quality square aluminum-cased lithium iron phosphate cells and are equipped with intelligent BMS. long cycle life, high safety performance, beautiful appearance, free combination, and easy installation. The battery pack is equipped with a touch LCD display to visualize operating data. Compatible with most brands of hybrid 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 Specifications

Model	DKS		
System specification	51.2V100Ah	51.2V200Ah	51.2V314Ah
Cells combination	16S1P	16S1P	16S1P
Battery pack capacity	5.12kWh	10.24kWh	16.07kWh
Standard discharge current	50A	100A	140A
MAX. discharge current	100A	105A	140A
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	105A	140A
MAX. charging voltage	57.6V	57.6V	57.6VDC
Discharge depth and life	> 6000 times (0.5C@25°C) Energy retention rate ≥ 80%		
Working humidity	65±20%RH		
Operating temperature	0~+40°C		
Working altitude	≤ 2500m		
Firefighting	Aerosol PACK 12g		
Cooling method	Natural cooling		
Installation method	Stacked installation		
IP rating	IP20		
Warranty	5~10Years		
Communication	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)		
Certification	CE ROHS FCC UN38.3 MSDS ISO9001		
Product size	485*490*220mm	705*615*180mm	705*615*292mm
Package size	550*550*270mm	755*655*270mm	750*655*290mm
Net weight	46kg	85kg	118kg
Gross weight	52kg	102kg	140kg

The stacked battery is additionally equipped with a base, cover plate, and casters(Cover plate: 8mm Base: 52mm Caster: 6mm)

Operation diagram of household photovoltaic energy storage system



DKC

Rack/Cabinet Energy Storage Lithium Battery



Rack mount installation



Cabinet installation



Technical Specifications

Model	DKC-2.5	DKC-5	DKC-10	DKC-16		
System specification	51.2V50Ah	48V100Ah	51.2V100Ah	48V200Ah	51.2V200Ah	51.2V314Ah
Cells combination	16S1P	15S1P	16S1P	15S1P	16S1P	16S1P
Battery pack capacity	2.56kWh	4.8kWh	5.12kWh	9.6kWh	10.24kWh	14.336kWh
Standard discharge current	50A	50A	50A	100A	100A	140A
MAX. discharge current	100A	100A	100A	105A	105A	140A
Working voltage range	43.2-57.6VDC	40.5-54VDC	43.2-57.6VDC	40.5-54VDC	43.2-57.6VDC	43.2-57.6VDC
Standard voltage	51.2VDC	48VDC	51.2VDC	48VDC	51.2VDC	51.2VDC
MAX. charging current	50A	100A	100A	105A	105A	140A
MAX. charging voltage	57.6V	54V	57.6V	54V	57.6V	57.6V
Discharge depth and life	>6000 times (0.5C@25°C) Energy retention rate ≥80%					
Working humidity	65±20%RH					
Operating temperature	0~+40°C					
Working altitude	≤2500m					
Firefighting	Aerosol PACK 12g					
Cooling method	Natural cooling					
Installation	Wall-mounted installation					
IP rating	IP20					
Warranty	5~10Years					
Communication	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)					
Certification	CE ROHS FCC UN38.3 MSDS ISO9001					
Product size	440*484*88mm	440*484*178mm	440*796*178mm	405*750*230mm		
Package size	500*555*130mm	555*500*235mm	570*1010*365mm	465*810*290mm		
Net weight	27kg	41kg	45kg	74kg	78kg	105kg
Gross weight	32kg	49kg	55kg	86kg	90kg	115kg

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



TOP brand battery cells
Quality guaranteed



The PACK+ cabinet features dual fire protection
Ensuring a safer system



Compatible with communication
of most brand inverters



Touch screen design, convenient interaction
Designed according to standard cabinet dimensions



Support customization of Bluetooth
and WiFi communication



Support OEM/ODM

DKH

High Voltage Energy Storage Lithium Battery



TOP brand battery cells
Quality guaranteed



Support secondary and tertiary architectures



DC voltage range 96-1000VDC



Support OEM/ODM



The DKH high-voltage solution supports custom stacking configurations



Technical Specifications

Model	DKH					
System specification	96V100Ah	144V100Ah	192V100Ah	240V100Ah	384V314Ah	512V314Ah
Battery pack capacity	9.6kWh	14.4kWh	19.2kWh	24kWh	120kWh	160kWh
Battery pack quantity	2 PACKs	3 PACKs	4 PACKs	5 PACKs	8 PACKs	10 PACKs
Standard discharge current	50A-300A(Customer customize)					
MAX. discharge current	50A-300A(Customer customize)					
Working voltage range	81-108VDC	121-162VDC	162-216VDC	202-270VDC	324-432VDC	432-576VDC
Standard voltage	96VDC	144VDC	192VDC	240VDC	384VDC	512VDC
MAX. charging current	50A-300A(Customer customize)					
MAX. charging voltage	81-864VDC					
Discharge depth and life	> 6000 times (0.5C@25°C) Energy retention rate ≥ 80%					
Working humidity	65±20%RH					
Operating temperature	0~+40°C					
Working altitude	≤2500m					
Firefighting	Aerosol PACK 12g					
Cooling method	Natural cooling					
Installation method	Cabinet/Rack/Stacked Mount installation					
IP rating	IP20					
Warranty	5~10Years					
Communication method	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)					
Certification	CE ROHS FCC UN38.3 MSDS ISO9001					

Compatible hybrid inverter / PCS brands



DKV

Replace GEL Battery Lithium Battery



Quick replacement



Optional Coulomb meter



Optional Bluetooth



Optional GPRS



This series adopts high-quality lithium iron phosphate batteries, equipped with intelligent BMS, long cycle life, high safety, beautiful appearance, free combination and convenient installation. LCD display, visualization of battery operating data. Compatible with most solar inverter, providing efficient energy for solar off-grid households, commercial and other electrical equipment.

Technical Specifications

Model	DKV					
Specification	12.8V8Ah	12.8V15Ah	12.8V50Ah	12.8V100Ah	12.8V125Ah	12.8V200Ah
Capacity	102Wh	256Wh	640Wh	1.28kWh	1.6kWh	2.56kWh
Standard discharge current	4A	10A	25A	50A	100A	100A
Max. discharge current	8A	20A	50A	100A	100A	100A
Working voltage range	10-14.6V					
Standard Voltage	12.8V					
Max. charging voltage	14.6V					
Max of parallel	4PCS					
Max of series connection	4PCS					
Product size	152*65*98mm	265*70*90mm	255*165*215mm	255*165*215mm	480*165*240mm	515*235*225mm
Net weight	1.2kg	4.5kg	9kg	16kg	28kg	45kg

Model	DKV					
Specification	25.6V50Ah	25.6V125Ah	25.6V150Ah	25.6V100Ah	25.6V200Ah	25.6V314Ah
Capacity	1.28kWh	3.2kWh	3.84kWh	2.56kWh	5.12kWh	8.03kWh
Standard discharge current	25A	50A	50A	50A	100A	140A
Max. discharge current	50A	100A	100A	100A	100A	140A
Working voltage range	20-29.2V					
Standard Voltage	25.6V					
Max. charging voltage	29.2V					
Max of parallel	2PCS					
Max of series connection	2PCS					
Product size	305*165*215mm	480*165*240mm	480*165*240mm	480*165*240mm	535*245*220mm	380*320*260mm
Net weight	17kg	23kg	25kg	30kg	40kg	46kg
Discharge depth and life	>6000 times (0.5C@25°C) Energy retention rate ≥80%					
Working humidity	65±20%RH					
Operating temperature	0°C~+40°C					
Working altitude	≤2500m					
Cooling method	Natural cooling					
IP rating	IP65					
Warranty	5-10 Years					
Communication method	Optional RS485/GPRS/Bluetooth					
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001					

L-ESS

Vertical Energy Storage System



Li-FePO₄



3-8KW
Out put



APP
Control



Customized
High/low voltage



Customized
capacity



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

Technical Specifications

Model	L-ESS-5	L-ESS-10	L-ESS-16
System Capacity	5.12kWh/5kW	10.24kWh/5kW	16kWh/8kW
Standard discharge current	50A	50A	50A
Max. discharge current	100A	100A	100A
Working DC 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	5500W	5500W+5500W	
Number of MPPT ways	1 way	2 ways	
DC input voltage range	42-60VDC		
Rated grid 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		

S-ESS

Stacked Energy Storage System



Li-FePO₄



3-8KW
Out put



APP
Control



Customized
High/low voltage



Customized
capacity



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

Technical Specifications

Model	S-ESS-5	S-ESS-10	S-ESS-16
System Capacity	5.12kWh/5kW	10.24kWh/5kW	16kWh/8kW
Standard discharge current	50A	50A	50A
Max. discharge current	100A	100A	100A
Working DC 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	5500W	5500W+5500W	
Number of MPPT ways	1 way	2 ways	
DC input voltage range	42-60VDC		
Rated grid 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		

C-ESS

Rack/Cabinet Energy Storage System



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

Technical Specifications

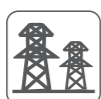
Model	C-ESS-5	C-ESS-10	C-ESS-16
System Capacity	5.12kWh/5kW	10.24kWh/5kW	16kWh/8kW
Standard discharge current	50A	50A	50A
Max. discharge current	100A	100A	100A
Working DC voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A
Max. 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	5500W	5500W+5500W	
Number of MPPT ways	1 way	2 ways	
DC input voltage range	42-60VDC		
Rated grid 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		

DK-PI

On/off-Grid Hybrid Inverter



Single phase



On/off-grid



Pure Sine Wave



Built-in MPPT



Communication



On/off-grid hybrid 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 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 Specifications

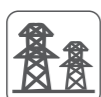
Model	DK-PI-8k	DK-PI-10k	DK-PI-12k
Rated power	8kW	10kW	12kW
Standard battery voltage	Lead-acid Battery or Lithium Battery 48VDC		
Battery voltage range	40VDC~60VDC ± 0.6VDC(Undervoltage/Shutdown Voltage/Overvoltage /Overvoltage Recovery Warning)		
Hybrid charging MAX. charging current		100A	
Installation 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		18+18A
MAX. PV array power(MPPT)	5500W+5500W		6600W+6600W
MAX. solar charging current			
AC input parameters			
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	230VAC 200/208/220/240VAC		
Rated output power	8kW	10kW	10kW
Rated AC output current	11.6A	14.5A	17.4A
MAX. bypass output current	23.2A	23.2A	23.2A
Peak power	16kW(1~3s)	20kW(1~3s)	24kW(1~3s)
On-load motor capacity	5HP		6HP
Output frequency range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz		
Max. 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	0~95% (No condensation)		
IP rating	IP65		
Product size	556*345*182mm		
Package size			
Net weight	19.2kg		
Gross weight			

DK-PH

On/off-Grid Hybrid Inverter



Three phase



On/off-grid



Pure Sine Wave



Built-in MPPT



Communication



On/off-grid hybrid 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 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 Specifications

Model	DK-PH-10k	DK-PH-12k	DK-PH-15k
Rated power	10kW	12kW	15kW
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	1000VDC		
Solar working voltage range	200-800VDC		
MPPT voltage range	120-450VDC		
MAX. solar input current	36A/18A		
MAX. PV array power(MPPT)	10000W+10000W	12000W+12000W	15000W+15000W
AC Output Data(Grid-tied)			
Max. Apparent Output Power	11000VA	13200VA	16500VA
Rated Output Voltage	380/400VAC		
Rated Output Frequency	50Hz / 60Hz (Automatic Detection)		
MAX. Output Current	16.7A	20A	25A
Output Power Factor	1 (0.8 leading~0.8lagging)		
AC Output Data(Off-grid)			
Rated Output Power	10kW	12kW	15kW
Peak Output Power	380/400VAC		
Rated Output Voltage	>200% (15s second)		
Rated Output Frequency	50Hz / 60Hz (Automatic Detection)		
Rated Output Current	16.7A	20A	25A
Basic parameters			
Output waveform	Pure Sine Wave		
Cooling method	Intelligent Forced Air Cooling		
Noise level	<55dB		
No-load loss	Non Energy-saving Mode: ≤50W Energy-saving Mode: ≤25W (Manual Setup)		
Working temperature range	-25°C ~ 55°C		
Storage temperature range	-25°C ~ 60°C		
Humidity range	0~95% (No condensation)		
IP rating	IP65		
Product size	475*683*256mm		
Package size	760*540*365mm		
Net weight	38kg		
Gross weight	40kg		
Optional features			
Wi-Fi function		<input type="checkbox"/> √	<input type="checkbox"/> ×
Grid anti-backflow CT		<input type="checkbox"/> √	<input type="checkbox"/> ×

DK-PU

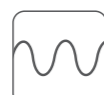
Off-Grid Hybrid Inverter



Single phase



On/off-grid



Pure Sine Wave



Built-in MPPT



Communication



The 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 Specifications

Model	DK-PU-3.6k	DK-PU-6.5k
Rated power	3.6kW	6.5kW
Standard battery voltage	Lead-acid Battery or Lithium Battery 48VDC	
Battery voltage range	40VDC-60VDC ± 0.6VDC(Undervoltage/Shutdown Voltage/Overvoltage /Overvoltage Recovery Warning)	
Permitted parallel number	1~6PCS	
Installation method	Wall mount	
Solar input parameters		
MAX. solar open-circuit voltage	300VDC	
Solar working voltage range	120-300VDC	
MPPT voltage range	90-260VDC	
MAX. solar input current	22A	22A+22A
MAX. PV array power(MPPT)	4500W	4500W+4500W
Input		
Rated mains power input voltage	120VAC±5%	
Grid power input voltage range	90-140VAC±2%	
Grid input frequency range	40~55Hz(50Hz) 55~65Hz(60Hz)	
Output		
Inverter	Output efficiency	94%
	Output voltage	110VAC±2%/120VAC±2%(Inverter model)
	Output frequency	50Hz±0.5 or 60Hz±0.5(Inverter model)
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)	
Peak power	7200VA(1~3s)	12000VA(1~3s)
On-load motor capacity	2HP	5HP
Charging		
MAX. charging current(Grid+solar)	0-80A	0-150A
MAX. mains charging current	40A(adjustable)	120A(adjustable)
Circuit breaker specifications	40A	63A
Basic parameters		
Output waveform	Pure Sine Wave	
Cooling method	Intelligent Forced Air Cooling	
Noise level	60dB	
Working temperature range	-25°C ~ 55°C	
Storage temperature range	-25°C ~ 60°C	
Humidity range	0~95% (No condensation)	
IP rating	IP21	
Product size	415*280*100mm	550*365*130mm
Package size	520*360*190mm	678*459*219mm
Net weight	7.8kg	21kg
Gross weight	9kg	22kg
Optional features		
Wi-Fi function	<input type="checkbox"/> √ <input type="checkbox"/> ×	

DK-PUS

Off-Grid Hybrid Inverter



Split phase



On/off-grid



Pure Sine Wave



Built-in MPPT



Communication



The 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.

Technical Specifications

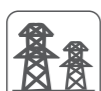
Model	DK-PUS-7.2k	DK-PUS-12k
Rated power	7.2kW	12kW
Rated output power	Split phase:7.2kW Single phase:6kW	Split phase:12kW Single phase:7.2kW
Standard battery voltage	Lead-acid Battery or Lithium Battery 48VDC	
Battery voltage range	40VDC-60VDC ± 0.6VDC(Undervoltage/Shutdown Voltage/Overvoltage /Overvoltage Recovery Warning)	
Permitted parallel number	1~6PCS	
Installation method	Wall mount	
Solar input parameters		
MAX. solar open-circuit voltage	500VDC	
Solar working voltage range	90-500VDC	
MPPT voltage range	90-450VDC	
MAX. solar input current	22A+22A	
MAX. PV array power(MPPT)	6000W+6000W	
Input		
Rated mains power input voltage	120VAC(L1+N,L2+N)/240VAC(L1+L2)	
Grid power input voltage range	90-140VAC±2%	
Grid input frequency range	40~55Hz(50Hz) 55~65Hz(60Hz)	
Output		
Inverter	Output efficiency	94%
	Output voltage	120VAC(L1+N,L2+N)/240VAC(L1+L2)
	Output frequency	50Hz±0.5 or 60Hz±0.5(Inverter model)
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)	
Peak power	12000VA(1~3s)	18000VA(1~3s)
On-load motor capacity	4HP	6HP
Charging		
MAX. charging current(Grid+solar)	0-220A	
MAX. mains charging current	120A(adjustable)	160A(adjustable)
Circuit breaker specifications	40A	63A
Basic parameters		
Output waveform	Pure Sine Wave	
Cooling method	Intelligent Forced Air Cooling	
Noise level	≤60dB	
Working temperature range	-25°C ~ 55°C	
Storage temperature range	-25°C ~ 60°C	
Humidity range	0-95% (No condensation)	
IP rating	IP21	
Product size	580*370*131mm	620*450*132mm
Package size	700*485*212mm	758*564*224mm
Net weight	20kg	23.8kg
Gross weight	21.5kg	28.6kg
Optional features		
Wi-Fi function	<input type="checkbox"/> √	<input type="checkbox"/> ×

DK-PC

Off-Grid Hybrid Inverter Cabinet/rack installation



Single phase



On/off-grid



Pure Sine Wave



Built-in MPPT



Communication



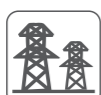
Model	DK-PC-3.2k	DK-PC-5.5k	DK-PC-6.2k	DK-PC-8k	DK-PC-12k
Rated power	3200W	5500W	6200W	8000W	12000W
Standard voltage	24VDC	48VDC			
Installation	Wall mount installation				
Solar parameter					
Rated solar input voltage	360VDC				
MPPT tracking voltage range	120-450V				
Max input voltage (VOC) at lowest temperature	500V				
Max input power	3200W	5500W	6200W	8000W	11000W
NO. of MPPT	1 way			2 ways	
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 battery	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°C off output				
Performance parameters					
Conversion time	≤4ms				
Cooling method	Intelligent cooling fan				
Working temperature	-10~40°C				
Storage temperature	-15~60°C				
Altitude	2000m(>2000m altitude need derating)				
Humidity	0~95% (No condensation)				
Product size	440*484*178mm			440*484*220mm	
Package size	555*500*235mm			555*500*255mm	
Net weight	8.5kg	9.5kg	17kg	19kg	
Gross weight	9.5kg	10.5kg	19kg	21kg	

DK-PW

Off-Grid Hybrid Inverter



Single phase



On/off-grid



Pure Sine Wave



Built-in MPPT



Communication



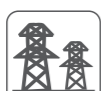
Model	DK-PW-3.2k	DK-PW-5.5k	DK-PW-6.2k	DK-PW-8k	DK-PW-12k
Rated power	3200W	5500W	6200W	8000W	12000W
Standard voltage	24VDC	48VDC			
Installation	Wall mount installation				
Solar parameter					
Rated solar input voltage	360VDC				
MPPT tracking voltage range	120-450V				
Max input voltage (VOC) at lowest temperature	500V				
Max input power	3200W	5500W	6200W	8000W	11000W
NO. of MPPT	1 way			2 ways	
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°C off output				
Performance parameters					
Conversion time	≤4ms				
Cooling method	Intelligent cooling fan				
Working temperature	-10~40°C				
Storage temperature	-15~60°C				
Altitude	2000m(>2000m altitude need derating)				
Humidity	0~95% (No condensation)				
Product size	415*500*170mm	415*500*170mm	555*640*170mm		
Package size	435*520*190mm	435*520*190mm	575*660*190mm		
Net weight	12kg	16.5kg	27.5kg		
Gross weight	14kg	22kg	32kg		

DK-PT

Off-Grid Hybrid Inverter



Three phase



On/off-grid



Pure Sine Wave



Built-in MPPT



Communication



The 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.

Technical Specifications

Model	DK-PT-8k	DK-PT-10k	DK-PT-12k
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. Solar 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 ways		
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 voltage 170~280V Line voltage 305~485V		
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		

Basic parameters

Cooling method	Intelligent Forced Air Cooling		
Noise level	<55dB		
No-load loss	Non Energy-saving Mode: ≤50W Energy-saving Mode: ≤25W (Manual Setup)		
Working temperature range	-25°C ~ 55°C		
Storage temperature range	-25°C ~ 60°C		
Humidity range	0~95% (No condensation)		
IP rating	IP21		
Product size	620*445*130mm		
Package size	680*500*170mm		
Net weight	27kg		
Gross weight	29kg		

DK-PA

Small Pure Sine Wave Inverter



Single phase



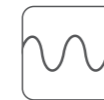
Remote switch



Socket customization



Voltage customization



Pure sine wave



The DK-PA series inverters adopts a high-frequency design, featuring pure sine wave output and support for remote control. It can customize various DC and AC voltages. When paired with a controller and lithium battery products, it can be widely applied in household, RV, and mobile power usage scenarios.

Technical Specifications

Model	DK-PA-0.3k	DK-PA-0.5k	DK-PA-1k	DK-PA-1.5k	DK-PA-2k	DK-PA-2.5k	DK-PA-3k	
Specification	300W	500W	1000W	1500W	2000W	2500W	3000W	
Input	Input voltage							
	12/24/48VDC							
	12V DC							
	24V DC							
	48V DC							
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°C~ +50°C								
Humidity								
20%-90%RH								
Storage temperature								
-30°C ~+70°C								
Product 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



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.



Lsrail



Switzerland



France



Germany



Japan



SouthAfrica

DK1200

Portable Outdoor Power Supply

1200W 1008Wh



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

Technical Specifications

Model	DK-1200				
Rated Capacity	1008Wh				
Rated power	1200W				
Charge and discharge parameters					
Operating temperature	0°C~+40°C (Charge) -10°C~+40°C(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 charge
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				
IP rating	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				

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