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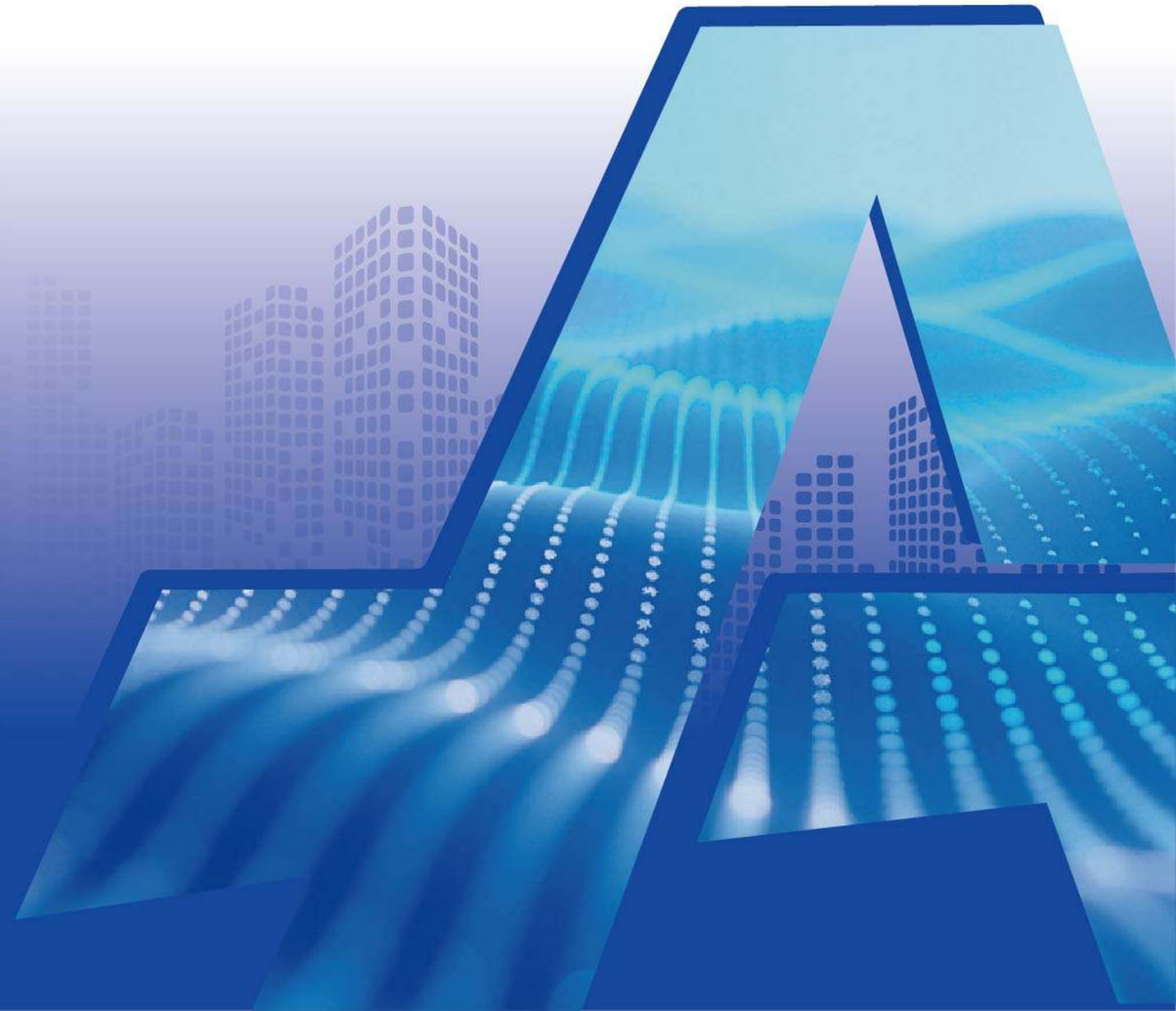
Arktos

Smart Lighting. Smarter Energy

Reduce Energy Costs | Improve Operational Efficiency | Build A Smarter, Greener Future

BATTERY & ENERGY STORAGE

PRODUCT CATALOG | ENGLISH EDITION



BATTERY CATALOG

Standalone batteries and modular energy storage.

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WALL-MOUNTED BATTERY PACK



MODEL

HBPACK-W5000-L1

5.12kWh | 51.2V
Rated energy / voltage per module

KEY FEATURES

- Space saving
- Flexible assembly
- Real-time monitoring
- Intelligent BMS

MODEL + CONFIGURATION
info@arktosenergy.com | www.arktosenergy.com

SPECIFICATIONS

PARAMETER	HBPACK-W5000-L1
System parameters	
Battery type	LFP (LiFePO4)
System weight	59kg
Dimensions (mm)	410×660×182
Ingress protection	IP65
Installation method	≤4 in parallel, wall mounted or floor mounted
Electrical parameters	
Energy capacity	5.12kWh
Usable capacity	4.6kWh
Depth of discharge (DOD)	90%
Rated voltage	51.2V
Operating voltage range	43.2~58.4V
Maximum charge / discharge current	50A/100A
Peak current	200A/3sec
Operating temperature range	-10℃~55℃ Charge & discharge
Humidity	5~95% (No condensation)
Altitude	<2500m
Cycle life	≥6000@80%DOD, 25°C/0.5C
Communication	
Communication mode	CAN&RS485
Monitoring parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature detection
Standards	
Battery pack	IEC/EN 62619; UN38.3
Cell	IEC/EN 62619; UN38.3; UL1973

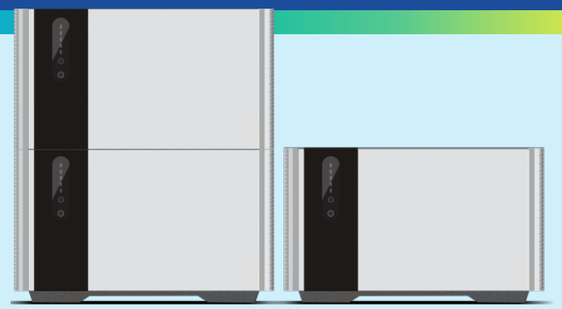
LOW-VOLTAGE BATTERY PACK

MODEL

HBPACK-S5000-L1

5.12kWh | 51.2V

Rated energy / voltage per module



KEY FEATURES

- Large capacity
- Scalable modules
- Real-time monitoring
- Intelligent BMS

MODEL + CONFIGURATION

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SPECIFICATIONS

PARAMETER	HBPACK-S5000-L1
System parameters	
Battery type	LFP (LiFePO4)
System weight	49kg
Dimensions (mm)	630×193×407
Ingress protection	IP65
Installation method	≤8 in parallel, stacked installation
Electrical parameters	
Energy capacity	5.12kWh
Usable capacity	4.6kWh
Depth of discharge (DOD)	90%
Rated voltage	51.2V
Operating voltage range	43.2~58.4V
Maximum charge / discharge current	50A/100A
Peak current	200A/3sec
Operating temperature range	-10℃~55℃ Charge & discharge
Humidity	5~95% (No condensation)
Altitude	<2500m
Cycle life	≥6000@80%DOD, 25°C/0.5C
Communication	
Communication mode	CAN&RS485
Monitoring parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature detection
Standards	
Battery pack	IEC/EN 62619; UN38.3
Cell	IEC/EN 62619; UN38.3; UL1973

WALL-MOUNTED BATTERY



MODEL

HA

25.6V100Ah
25.6V280Ah
25.6V314Ah

KEY FEATURES

- LiFePO4 chemistry
- Wall-mounted design
- Optional CAN/RS485 communication
- Smart BMS protection

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	HA-25.6V100Ah	HA-25.6V280Ah	HA-25.6V314Ah
Case design	Wall-mounted	Wall-mounted	Wall-mounted
Battery type	Lithium iron phosphate (LiFePO4)		
Nominal battery voltage (VDC)	25.6V	25.6V	25.6V
Nominal capacity (25 °C, 0.2C) (Ah)	100Ah	280Ah	314Ah
Nominal energy (25 °C, 0.2C) (Wh)	2560WH	7168WH	8038.4WH
Float charge voltage (VDC)	28.0V	28.0V	28.0V
Operating voltage range (VDC)	20.0~29.2V	20.0~29.2V	20.0~29.2V
Max. continuous charge current (A)	50A	100A	100A
Max. continuous discharge current (A)	100A	200A	200A
Max. pulse discharge current (A)	150A 1Sec	300A 1Sec	300A 1Sec
Terminal	M6	M8	M8
Storage temperature	0℃ ~ 30℃		
Ingress protection	IP 20		
Storage duration	6 months at 25 °C		
Safety standards	UN38.3,MSDS		
Display (optional)	LCD		
Communication port (optional)	CAN,RS485		
PROTECTION			
Protection functions	Overcharge, overdischarge, overcurrent, short-circuit and overtemperature protection.		
AMBIENT CONDITIONS			
Operating temperature	-10℃ ~ +50℃		
Humidity	0~95% (no condensation)		
Max. altitude (m)	≤1500		
DIMENSIONS			
Product dimensions (L x W x H, mm)	460 x 360 x139 mm	460 x 360 x160 mm	460 x 360 x160 mm
Package dimensions (L x W x H, mm)	472.5 x 405x 210 mm	780 x 540x 210 mm	780 x 540x 210 mm
Net weight (kg)	23.5Kg	58.0Kg	58.0Kg
Gross weight (kg)	26.0Kg	66.8Kg	66.8Kg

* Product appearance and battery capacity can be customized.

WALL-MOUNTED BATTERY



MODEL

HA PRO

25.6V200Ah

51.2V100Ah

KEY FEATURES

- LiFePO4 chemistry
- Wall-mounted design
- Optional CAN/RS485 communication
- Smart BMS protection

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	HA PRO Series 25.6V200Ah	HA PRO Series 51.2V100AH
Case design	Wall-mounted	Wall-mounted
Battery type	Lithium iron phosphate (LiFePO4)	
Nominal battery voltage (VDC)	25.6V	51.2V
Nominal capacity (25 °C, 0.2C) (Ah)	200Ah	100Ah
Nominal energy (25 °C, 0.2C) (Wh)	5120WH	5120WH
Float charge voltage (VDC)	28.0V	56.0V
Operating voltage range (VDC)	20.0~29.2V	40.0~58.4V
Max. continuous charge current (A)	100A	50A
Max. continuous discharge current (A)	200A	100A
Max. pulse discharge current (A)	300A 1Sec	150A 1Sec
Terminal	M8	M6
Storage temperature	0°C ~ 30°C	
Ingress protection	IP 20	
Storage duration	6 months at 25 °C	
Safety standards	UN38.3,MSDS	
Display (optional)	LCD	
Communication port (optional)	CAN,RS485	
PROTECTION		
Protection functions	Overcharge, overdischarge, overcurrent, short-circuit and overtemperature protection.	
AMBIENT CONDITIONS		
Operating temperature	-10°C ~ +50°C	
Humidity	0~95% (no condensation)	
Max. altitude (m)	≤1500	
DIMENSIONS		
Product dimensions (L x W x H, mm)	660x410x139 mm	
Package dimensions (L x W x H, mm)	740x490x219 mm	
Net weight (kg)	44.2Kg	
Gross weight (kg)	46.9Kg	

* Product appearance and battery capacity can be customized.

TOWER BATTERY



MODEL

HF PRO MAX

51.2V280Ah
51.2V314Ah
51.2V400Ah

KEY FEATURES

- LiFePO4 chemistry
- Tower-type design
- Optional CAN/RS485 communication
- LCD display

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	HF PRO MAX Series 51.2V280Ah	HF PRO MAX Series 51.2V314Ah	HF PRO MAX Series 51.2V400Ah
Case design	Tower	Tower	Tower
Battery type	Lithium iron phosphate (LiFePO4)		
Nominal battery voltage (VDC)	51.2V	51.2V	51.2V
Nominal capacity (25 °C, 0.2C) (Ah)	280Ah	314Ah	400Ah
Nominal energy (25 °C, 0.2C) (Wh)	14336WH	16076WH	20480WH
Float charge voltage (VDC)	56.0V	56.0V	56.0V
Operating voltage range (VDC)	40.0~58.4V	40.0~58.4V	40.0~58.4V
Max. continuous charge current (A)	200A	200A	200A
Max. continuous discharge current (A)	200A	200A	200A
Max. pulse discharge current (A)	300A 1Sec	300A 1Sec	300A 1Sec
Terminal	M8		
Storage temperature	0°C ~ 30°C		
Ingress protection	IP 20		
Storage duration	6 months at 25 °C		
Safety standards	UN38.3,MSDS		
Display (optional)	LCD		
Communication port (optional)	CAN,RS485		
PROTECTION			
Protection functions	Overcharge, overdischarge, overcurrent, short-circuit and overtemperature protection.		
AMBIENT CONDITIONS			
Operating temperature	-10°C ~ +50°C		
Humidity	0~95% (no condensation)		
Max. altitude (m)	≤1500		
DIMENSIONS			
Product dimensions (L x W x H, mm)	800x450 x286 mm	800x450 x286 mm	960x500 x300 mm
Package dimensions (L x W x H, mm)	980 x540x376 mm	980 x540x376 mm	1090 x560x510 mm
Net weight (kg)	118Kg	118Kg	161Kg
Gross weight (kg)	132Kg	132Kg	181Kg

* Product appearance and battery capacity can be customized.

FLOOR-STANDING BATTERY



MODEL

HH

25.6V280Ah
25.6V314Ah

KEY FEATURES

- LiFePO4 chemistry
- Floor-standing design
- Optional CAN/RS485 communication
- Smart BMS protection

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	HH-25.6V280Ah	HH-25.6V314Ah
Case design	Floor-standing	Floor-standing
Battery type	Lithium iron phosphate (LiFePO4)	
Nominal battery voltage (VDC)	25.6V	25.6V
Nominal capacity (25 °C, 0.2C) (Ah)	280Ah	314Ah
Nominal energy (25 °C, 0.2C) (Wh)	7168WH	8038.4WH
Float charge voltage (VDC)	28.0V	28.0V
Operating voltage range (VDC)	20.0~29.2V	20.0~29.2V
Max. continuous charge current (A)	100A	100A
Max. continuous discharge current (A)	200A	200A
Max. pulse discharge current (A)	300A 1Sec	300A 1Sec
Terminal	M8	
Storage temperature	0°C ~ 30°C	
Ingress protection	IP 20	
Storage duration	6 months at 25 °C	
Safety standards	UN38.3,MSDS	
Display (optional)	LCD	
Communication port (optional)	CAN,RS485	
PROTECTION		
Protection functions	Overcharge, overdischarge, overcurrent, short-circuit and overtemperature protection.	
AMBIENT CONDITIONS		
Operating temperature	-10°C ~ +50°C	
Humidity	0~95% (no condensation)	
Max. altitude (m)	≤1500	
DIMENSIONS		
Product dimensions (L x W x H, mm)	550X380X245mm	
Package dimensions (L x W x H, mm)	675x460x425mm	
Net weight (kg)	61.5kg	
Gross weight (kg)	72kg	

* Product appearance and battery capacity can be customized.

FLOOR-STANDING BATTERY



MODEL

HH PRO

51.2V200Ah

51.2V314Ah

KEY FEATURES

- LiFePO4 chemistry
- Floor-standing design
- Optional CAN/RS485/Wi-Fi communication
- LCD display

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	HH Pro 51.2V200Ah	HH Pro 51.2V314Ah
Battery type	Lithium iron phosphate (LiFePO4)	
Nominal battery voltage (VDC)	51.2V	51.2V
Nominal capacity (25 °C, 0.2C) (Ah)	200Ah	314Ah
Nominal energy (25 °C, 0.2C) (Wh)	10240WH	16076.8WH
Voltage specification (VDC)	56.0V	56.0V
Operating voltage range (VDC)	40.0~58.4V	40.0~58.4V
Max. continuous charge current (A)	100A	200A
Max. continuous discharge current (A)	200A	200A
Max. pulse discharge current (A)	300A 1Sec	300A 1Sec
Terminal	M8	
Storage temperature	0°C ~ 30°C	
Ingress protection	IP 20	
Storage duration	6 months at 25 °C	
Safety standards	UN38.3,MSDS	
Display (optional)	LCD	
Communication port (optional)	CAN,RS485,WiFi	
PROTECTION		
Protection functions	Overcharge, overdischarge, overcurrent, short-circuit and overtemperature protection.	
AMBIENT CONDITIONS		
Operating temperature	-10°C ~ +50°C	
Humidity	0~95% (no condensation)	
Max. altitude (m)	≤1500	
DIMENSIONS		
Product dimensions (L x W x D, mm)	660x428x248mm	800x450x250mm
Package dimensions (L x W x D, mm)	890x508x328mm	1005x550x350mm
Net weight (kg)	85.0Kg	118Kg
Gross weight (kg)	99.8Kg	134Kg

* Product appearance and battery capacity can be customized.

FLOOR-STANDING BATTERY



MODEL

HH PRO MAX

51.2V560Ah

51.2V628Ah

KEY FEATURES

- LiFePO4 chemistry
- Floor-standing design
- Optional CAN/RS485 communication
- LCD display

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	HF PRO MAX Series 51.2V560Ah	HF PRO MAX Series 51.2V628Ah
Case design	Floor-standing	Floor-standing
Battery type	Lithium iron phosphate (LiFePO4)	
Nominal battery voltage (VDC)	51.2V	51.2V
Nominal capacity (25 °C, 0.2C) (Ah)	280Ah*2	314Ah*2
Nominal energy (25 °C, 0.2C) (Wh)	28672WH	32153.6WH
Float charge voltage (VDC)	56.0V	56.0V
Operating voltage range (VDC)	40.0~58.4V	40.0~58.4V
Max. continuous charge current (A)	200A	200A
Max. continuous discharge current (A)	200A	200A
Max. pulse discharge current (A)	300A 1Sec	300A 1Sec
Terminal	M8	
Storage temperature	0℃ ~ 30℃	
Ingress protection	IP 20	
Storage duration	6 months at 25 °C	
Safety standards	UN38.3,MSDS	
Display (optional)	LCD	
Communication port (optional)	CAN,RS485	
PROTECTION		
Protection functions	Overcharge, overdischarge, overcurrent, short-circuit and overtemperature protection.	
AMBIENT CONDITIONS		
Operating temperature	-10℃ ~ +50℃	
Humidity	0~95% (no condensation)	
Max. altitude (m)	≤1500	
DIMENSIONS		
Product dimensions (L x W x H, mm)	850x880x280mm	
Package dimensions (L x W x H, mm)	1010x960x455mm	
Net weight (kg)	230Kg	
Gross weight (kg)	262.5Kg	

* Product appearance and battery capacity can be customized.

STACKABLE BATTERY



MODEL

HB PRO

51.2V100AH
51.2V200AH
51.2V280AH
51.2V314AH

KEY FEATURES

- LiFePO4 chemistry
- Stackable design
- Optional CAN/RS485 communication
- Smart BMS protection

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	HB PRO Series 51.2V100AH	HB PRO Series 51.2V200AH	HB PRO Series 51.2V280AH	HB PRO Series 51.2V314AH
Case design	Stackable	Stackable	Stackable	Stackable
Battery type	Lithium iron phosphate (LiFePO4)			
Nominal battery voltage (VDC)	51.2V	51.2V	51.2V	51.2V
Nominal capacity (25 °C, 0.2C) (Ah)	100Ah	200Ah	280Ah	314Ah
Nominal energy (25 °C, 0.2C) (Wh)	5120WH	10240WH	14336WH	16076.8WH
Float charge voltage (VDC)	56.0V	56.0V	56.0V	56.0V
Operating voltage range (VDC)	40.0~58.4V	40.0~58.4V	40.0~58.4V	40.0~58.4V
Max. continuous charge current (A)	50A	100A	100A	100A
Max. continuous discharge current (A)	100A	200A	200A	200A
Max. pulse discharge current (A)	150A 1Sec	300A 1Sec	300A 1Sec	300A 1Sec
Terminal	M6	M8	M8	M8
Storage temperature	0°C ~ 30°C			
Ingress protection	IP 20			
Storage duration	6 months at 25 °C			
Safety standards	UN38.3,MSDS			
Display	LCD			
Communication port (optional)	CAN,RS485			
PROTECTION				
Protection functions	Overcharge, overdischarge, overcurrent, short-circuit and overtemperature protection.			
AMBIENT CONDITIONS				
Operating temperature	-10°C ~ +50°C			
Humidity	0~95% (no condensation)			
Max. altitude (m)	≤1500			
DIMENSIONS				
Product dimensions (L x W x H, mm)	540x480 x164 mm	560x520 x254 mm	680x560 x254 mm	680x560 x254 mm
Package dimensions (L x W x H, mm)	616 x556x220 mm	700 x600x444 mm	760 x640x424 mm	760 x640x424 mm
Net weight (kg)	45Kg	82Kg	119Kg	119Kg
Gross weight (kg)	48Kg	98Kg	139Kg	139Kg

* Product appearance and battery capacity can be customized.

RACK-MOUNTED BATTERY



MODEL

HC PLUS

51.2V100AH
51.2V200AH
51.2V280AH
51.2V314AH

KEY FEATURES

- LiFePO4 chemistry
- Rack design
- Optional CAN/RS485 communication
- Smart BMS protection

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	HC PLUS Series 51.2V100AH	HC PLUS Series 51.2V200AH	HC PLUS Series 51.2V280AH	HC PLUS Series 51.2V314AH
Case design	Rack-mounted	Rack-mounted	Rack-mounted	Rack-mounted
Battery type	Lithium iron phosphate (LiFePO4)			
Nominal battery voltage (VDC)	51.2V	51.2V	51.2V	51.2V
Nominal capacity (25 °C, 0.2C) (Ah)	100Ah	200AH	280AH	314AH
Nominal energy (25 °C, 0.2C) (Wh)	5120WH	10240WH	14336WH	16076WH
Float charge voltage (VDC)	56.0V	56.0V	56.0V	56.0V
Operating voltage range (VDC)	40.0~58.4V	40.0~58.4V	40.0~58.4V	40.0~58.4V
Max. continuous charge current (A)	50A	100A	200A	200A
Max. continuous discharge current (A)	100A	200A	200A	200A
Max. pulse discharge current (A)	150A 1Sec	300A 1Sec	300A 1Sec	300A 1Sec
Terminal	M6	M8	M8	M8
Storage temperature	0°C ~ 30°C			
Ingress protection	IP 20			
Storage duration	6 months at 25 °C			
Safety standards	UN38.3,MSDS			
Display	LCD			
Communication port (optional)	CAN,RS485			
PROTECTION				
Protection functions	Overcharge, overdischarge, overcurrent, short-circuit and overtemperature protection.			
AMBIENT CONDITIONS				
Operating temperature	-10°C ~ +50°C			
Humidity	0~95% (no condensation)			
Max. altitude (m)	≤1500			
DIMENSIONS				
Product dimensions (L x W x H, mm)	440x440 x132 mm	600 x 440 x240	745x440 x240	745x440 x240
Package dimensions (L x W x H, mm)	550x520x192 mm	700 x 500 x 400	840X520X430	840X520X430mm
Net weight (kg)	45 Kg	87 Kg	118Kg	118Kg
Gross weight (kg)	48 Kg	102Kg	138Kg	138Kg

* Product appearance and battery capacity can be customized.

PLASTIC-CASE BATTERY

Lithium replacement for lead-acid batteries



MODEL

HD PLUS

12.8V100AH
12.8V200AH
12.8V280AH
12.8V314AH
25.6V100AH
25.6V206AH

KEY FEATURES

- LiFePO4 chemistry
- Plastic-case design
- Optional Bluetooth monitoring
- Smart BMS protection

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	HD PLUS 12.8V100AH	HD PLUS 12.8V200AH	HD PLUS 12.8V280AH	HD PLUS 12.8V314AH	HD PLUS 25.6V100AH	HD PLUS 25.6V206AH
Battery type	Lithium iron phosphate (LiFePO4)					
Battery configuration (V / Ah)	12.8V100AH	12.8V200AH	12.8V280AH	12.8V314AH	25.6V100AH	25.6V206AH
Nominal energy (25 °C, 0.2C) (Wh)	1280WH	2560WH	3584WH	4019WH	2560WH	5273.6WH
Operating voltage range (VDC)	10.0~14.6V	10.0~14.6V	10.0~14.6V	10.0~14.6V	20.0~29.2V	20.0~29.2V
Float charge voltage (VDC)	14.0V	14.0V	14.0V	14.0V	28.0V	28.0V
Max. continuous charge current (A)	50A	100A	100A	100A	50A	50A
Max. continuous discharge current (A)	100A	200A	200A	200A	100A	100A
Max. pulse discharge current (A)	150A 1Sec	300A 1Sec	300A 1Sec	300A 1Sec	150A 1Sec	150A 1Sec
Terminal	M8					
Storage temperature	0°C ~ 30°C					
Storage duration	6 months at 25 °C					
Safety standards	UN38.3,MSDS					
Ingress protection	IP 65					
PROTECTION						
Protection functions	Overcharge, overdischarge, overcurrent, short-circuit and overtemperature protection.					
AMBIENT CONDITIONS						
Operating temperature	-10°C ~ +50°C					
Humidity	0~95% (no condensation)					
Max. altitude (m)	≤1500					
DIMENSIONS						
Product dimensions (L x W x H, mm)	331x171x218	522x242x218	523x269x218	523x269x218	522x242x218	523x269x218
Package dimensions (L x W x H, mm)	356x196x263	527x248x247	543x289x268	543x289x268	547x267x268	543x289x268
Net weight (kg)	10.0Kg	20.0Kg	27.0Kg	27.2Kg	20.2Kg	35.5Kg
Gross weight (kg)	10.4Kg	21.0Kg	28.5Kg	28.7Kg	21.3Kg	37.5Kg

* Product appearance and battery capacity can be customized.

HIGH-VOLTAGE BATTERY PACK



MODEL

HBPACK-S5000-H1

5.12kWh | 51.2V
Rated energy / voltage per module

KEY FEATURES

- Large capacity
- Scalable modules
- Real-time monitoring
- Intelligent BMS
- Thermal aerosol fire-extinguishing device

MODEL + CONFIGURATION
info@arktosenergy.com | www.arktosenergy.com

SPECIFICATIONS

PARAMETER	HBPACK-S5000-H1
System parameters	
Battery type	LFP (LiFePO4)
System weight	49kg
Dimensions (mm)	610×175×407
Ingress protection	IP65
Installation method	3 to 8 units in series, stackable installation
Electrical parameters	
Energy capacity	5.12kWh
Usable capacity	4.6kWh
Depth of discharge (DOD)	90%
Rated voltage	51.2V
Operating voltage range	129.6~467.2V
Maximum charge / discharge current	50A/100A
Peak current	200A/3sec
Operating temperature range	-10℃~55℃ Charge & discharge
Humidity	5~95% (No condensation)
Altitude	<2500m
Cycle life	≥6000@80%DOD, 25°C/0.5C
Communication	
Communication mode	CAN&RS485
Monitoring parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature detection
Standards	
Battery pack	IEC/EN 62619; UN38.3
Cell	IEC/EN 62619; UN38.3; UL1973

HIGH-VOLTAGE BATTERY CONTROL

MODEL

HBPDU-S5000X8-H1

For HBPACK-S5000-H1



System shown with battery modules

KEY FEATURES

- 15.36~40.96kWh control capacity
- CAN & RS485 communication
- IP65 protection
- Stacking installation

BATTERY STACK OPTIONS

15.36kWh	25.6kWh	35.84kWh
3 modules	5 modules	7 modules

HBPACK-S5000-H1 + HBPDU-S5000X8-H1

SPECIFICATIONS

PARAMETER	HBPDU-S5000X8-H1
System parameters	
Battery type	LFP (LiFePO4)
System weight	19kg
Dimensions (mm)	630×175×407
Ingress protection	IP65
Installation method	Stacking installation
Control capacity	15.36~40.96kWh
Operating voltage range	129.6~467.2V
Maximum charge / discharge current	50A/100A
Peak current	200A/3sec
Operating temperature range	-10℃~55℃ Charge & discharge
Humidity	5~95% (No condensation)
Altitude	<2500m
Communication	
Communication mode	CAN&RS485
Monitoring parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature detection

HAND-HELD PORTABLE POWER



MODEL

HBT-PS-300
HBT-PS-500
HBT-PS-1000

HBT series

KEY FEATURES

- LiFePO4 battery
- AC / PV / vehicle charging
- Multiple AC and DC outputs
- LED lighting
- Integrated BMS protection

MODEL + CONFIGURATION

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SPECIFICATIONS

PARAMETER	HBT-PS-300	HBT-PS-500	HBT-PS-1000
AC output			
Inverter type	Modified sine wave	Pure sine wave	Pure sine wave
AC output power	300W	500W	1000W
Protection	Overload / short-circuit protection		
Battery			
Cell chemistry	LiFePO4		
Capacity	260Wh	400Wh	1025Wh
Nominal voltage	12.8V	12.8V	25.6V
DC output			
USB output	5V2A*2	5V2A*2	5V2A*4
Cigarette lighter	12V-10A	12V~10A	24V~8A
Type-C output	30W*1		
DC output	5521*2		
Charging			
Charging mode	AC charging / PV charging / On-board charging		
Input protection	Input overvoltage protection		
Charging protection	Charging overvoltage / overcurrent protection		
BMS protection			
Charging temperature protection	High & low temperature		
Discharging temperature protection	High & low temperature		
Discharging protection	Undervoltage / overcurrent		
General			
Flashlight	LED lighting		
Dimensions	290×180×205mm	290×180×205mm	340×220×250mm
Weight (approx.)	5.8kg	6.3kg	12.6kg
Certificates	ISO9001, ISO14001, ISO45001, CE		

HAND-HELD PORTABLE POWER



MODEL

HBT-PS-1500
HBT-PS-2000
HBT-PS-2500

HBT series

KEY FEATURES

- LiFePO4 battery
- AC / PV / vehicle charging
- Multiple AC and DC outputs
- LED lighting
- Integrated BMS protection

MODEL + CONFIGURATION

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SPECIFICATIONS

PARAMETER	HBT-PS-1500	HBT-PS-2000	HBT-PS-2500
AC output			
Inverter type	Pure sine wave		
AC output power	1500W	2000W	3000W
Protection	Overload / short-circuit protection		
Battery			
Cell chemistry	LiFePO4		
Capacity	1612Wh	2000Wh	2800Wh
Nominal voltage	25.6V		
DC output			
USB output	5V2A*4		
Cigarette lighter	24V~8A	12V~10A	12V-10A
Type-C output	30W*1		
DC output	5521*2		
Charging			
Charging mode	AC charging / PV charging / On-board charging		
Input protection	Input overvoltage protection		
Charging protection	Charging overvoltage / overcurrent protection		
BMS protection			
Charging temperature protection	High & low temperature		
Discharging temperature protection	High & low temperature		
Discharging protection	Undervoltage / overcurrent		
General			
Flashlight	LED lighting		
Dimensions	340×220×250mm	420×265×305mm	420×265×305mm
Weight (approx.)	14.1kg	22.4kg	26.6kg
Certificates	ISO9001, ISO14001, ISO45001, CE		

WHEELED PORTABLE POWER



MODEL

HBT-PS-3000

HBT-PS-3500

HBT series

KEY FEATURES

- LiFePO4 battery
- AC / PV / vehicle charging
- Multiple AC and DC outputs
- LED lighting
- Integrated BMS protection

MODEL + CONFIGURATION

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SPECIFICATIONS

PARAMETER	HBT-PS-3000	HBT-PS-3500
AC output		
Inverter type	Pure sine wave	
AC output rated power	3000W	3500W
Protection	Overload / short-circuit protection	
Battery		
Cell chemistry	LiFePO4	
Capacity	5000Wh	8000Wh
Nominal voltage	25.6V	
DC output		
USB output	5V2A*2	
Cigarette lighter	/	
Type-C output	PD3.0(65W*1)	
DC5521 output	12V~5A*4	
Charging		
Charging mode	AC charging / PV charging / On-board charging	
Input protection	Input overvoltage protection	
Charging protection	Charging overvoltage / overcurrent protection	
BMS protection		
Charging temperature protection	High & low temperature	
Discharging temperature protection	High & low temperature	
Discharging protection	Undervoltage / overcurrent	
General		
Flashlight	LED lighting	
Dimensions	530×290×430(mm)	
Weight (approx.)	50Kg	58Kg
Certificates	ISO9001, ISO14001, ISO45001, CE	

WHEELED PORTABLE POWER



MODEL

HBT-PS-5000

HBT-PS-5500

HBT series

KEY FEATURES

- LiFePO4 battery
- AC / PV / vehicle charging
- Multiple AC and DC outputs
- LED lighting
- Integrated BMS protection

MODEL + CONFIGURATION

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SPECIFICATIONS

PARAMETER	HBT-PS-5000	HBT-PS-5500
AC output		
Inverter type	Pure sine wave	
AC output rated power	5000W	5500W
Protection	Overload / short-circuit protection	
Battery		
Cell chemistry	LiFePO4	
Capacity	10000Wh	15000Wh
Nominal voltage	51.2V	
DC output		
USB output	5V/2.1A*2 10W max	
Cigarette lighter	12V-10A Total 120W max	
Type-C output	PD3.0(65W*1)	
DC5521 output	/	
Charging		
Charging mode	AC charging / PV charging / On-board charging	
Input protection	Input overvoltage protection	
Charging protection	Charging overvoltage / overcurrent protection	
BMS protection		
Charging temperature protection	High & low temperature	
Discharging temperature protection	High & low temperature	
Discharging protection	Undervoltage / overcurrent	
General		
Flashlight	LED lighting	
Dimensions	730×420×490(mm)	
Weight (approx.)	83Kg	95Kg
Certificates	ISO9001, ISO14001, ISO45001, CE	

PORTABLE ALL-IN-ONE ESS



MODEL

ESS 300W+896WH

ESS 500W+1000WH

KEY FEATURES

- 300 / 500 W AC output
- Solar and utility charging
- Integrated inverter and BMS
- USB device charging

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	ESS 300W+896WH	ESS 500W+1000WH
INVERTER / CHARGER		
Rated AC output power	300W	500W
Output voltage waveform	Pure Sine Wave	Pure Sine Wave
Output voltage	185 ~ 230VAC 50Hz	185 ~ 230VAC 50Hz
Low-DC warning threshold	⩽19%	⩽19%
Low-DC cut-off voltage	2.9Vdc	2.9Vdc
Low-DC warning recovery threshold	>20%	>20%
Charging power (utility + solar)	400W Max.	500W Max.
Bulk charging voltage	3.6Vdc	3.6Vdc
Float charging voltage	3.5Vdc	3.5Vdc
AC INPUT		
Nominal input voltage	230Vac	230Vac
Low-voltage cut-off	90Vac±7	90Vac±7
Low-voltage recovery	100Vac±7	100Vac±7
High-voltage cut-off	280Vac±7	280Vac±7
High-voltage recovery	270Vac±7	270Vac±7
Max. AC input voltage	300Vac	300Vac
Nominal input frequency	45 ~ 65Hz	45 ~ 65Hz
AC charging power	300W Max.	500W Max.
SOLAR INPUT		
Nominal PV voltage	30Vdc	30Vdc
PV array MPPT voltage range	10Vdc~55Vdc	10Vdc~55Vdc
Max. PV array open-circuit voltage	56Vdc	56Vdc
Solar charging power	300W Max.	300W Max.
LITHIUM IRON PHOSPHATE BATTERY		
Nominal energy	896Wh	1004.8Wh
Nominal battery voltage	3.2Vdc	3.2Vdc
Typical capacity	280Ah	314Ah
Max. charge current	130A	130A
Max. discharge current	130A	130A
Operating voltage range	2.9Vdc ~ 3.6Vdc	
Operating temperature	-10℃~+50℃	
DC OUTPUT		
DC output power	5W Max.	
DC output socket	5V1A USB *1	
DISPLAY		
LED indicators	4pcs SOC indicators,1 pcs working status indicators	
AMBIENT CONDITIONS		
Noise (dB)	<40dB(1meter)	
Operating temperature	-10℃~+50℃	
Humidity	5~95%(no condensation)	
Max. altitude (m)	⩽2000	
DIMENSIONS		
Product dimensions (L x W x H, mm)	210x156x356mm	210x156x356mm
Package dimensions (L x W x H, mm)	262x212x412mm	262x212x412mm
Net weight (kg)	9.9Kg	11.0Kg
Gross weight (kg)	11.0Kg	12.0Kg

PORTABLE ALL-IN-ONE ESS



MODEL

ESS 1000W+2009WH

KEY FEATURES

- 1,000 W AC output
- 2,009.6 Wh nominal capacity
- Solar and utility charging
- USB device charging

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	ESS 1000W+2009wh
INVERTER / CHARGER	
Rated AC output power	1000W
Output voltage waveform	Pure Sine Wave
Output voltage	185～230VAC 50Hz
Low-DC warning threshold	≤19%
Low-DC cut-off voltage	5.8Vdc
Low-DC warning recovery threshold	>20%
Charging power (utility + solar)	800W Max.
Bulk charging voltage	7.2Vdc
Float charging voltage	7.0Vdc
AC INPUT	
Nominal input voltage	230Vac
Low-voltage cut-off	90Vac±7
Low-voltage recovery	100Vac±7
High-voltage cut-off	280Vac±7
High-voltage recovery	270Vac±7
Max. AC input voltage	300Vac
Nominal input frequency	45～65Hz
AC charging power	800W Max.
SOLAR INPUT	
Nominal PV voltage	38Vdc
PV array MPPT voltage range	13Vdc~55Vdc
Max. PV array open-circuit voltage	56Vdc
Solar charging power	550W Max.
LITHIUM IRON PHOSPHATE BATTERY	
Nominal energy	2009.6Wh
Nominal battery voltage	6.4Vdc
Typical capacity	314Ah
Max. charge current	220A
Max. discharge current	220A
Operating voltage range	5.8Vdc～7.2Vdc
Operating temperature	-10℃~+50℃
DC OUTPUT	
DC output power	5W Max.
DC output socket	5V1A USB *1
DISPLAY	
LED indicators	4pcs SOC indicators,1 pcs working status indicators
Protection functions	Overcharge, overdischarge, overcurrent, short-circuit and overtemperature protection.
AMBIENT CONDITIONS	
Noise (dB)	<40dB(1meter)
Operating temperature	-10℃~+50℃
Humidity	5~95%(no condensation)
Max. altitude (m)	≤2000
DIMENSIONS	
Product dimensions (L x W x H, mm)	240x225x360mm
Package dimensions (L x W x H, mm)	286x271x416mm
Net weight (kg)	18.9Kg
Gross weight (kg)	20.0Kg

WALL-MOUNTED ALL-IN-ONE ESS



MODEL

ESS-W 1000W+2009WH

KEY FEATURES

- Wall-mounted design
- 1,000 W AC output
- 2,009.6 Wh nominal capacity
- Solar and utility charging

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	ESS-W 1000W+2009wh
INVERTER / CHARGER	
Rated AC output power	1000W
Output voltage waveform	Pure Sine Wave
Output voltage	185～230VAC 50Hz
Low-DC warning threshold	≤19%
Low-DC cut-off voltage	5.8Vdc
Low-DC warning recovery threshold	>20%
Charging power (utility + solar)	800W Max.
Bulk charging voltage	7.2Vdc
Float charging voltage	7.0Vdc
AC INPUT	
Nominal input voltage	230Vac
Low-voltage cut-off	90Vac±7
Low-voltage recovery	100Vac±7
High-voltage cut-off	280Vac±7
High-voltage recovery	270Vac±7
Max. AC input voltage	300Vac
Nominal input frequency	45～65Hz
AC charging power	800W Max.
SOLAR INPUT	
Nominal PV voltage	38Vdc
PV array MPPT voltage range	13Vdc~55Vdc
Max. PV array open-circuit voltage	56Vdc
Solar charging power	550W Max.
LITHIUM IRON PHOSPHATE BATTERY	
Nominal energy	2009.6Wh
Nominal battery voltage	6.4Vdc
Typical capacity	314Ah
Max. charge current	220A
Max. discharge current	220A
Operating voltage range	5.8Vdc～7.2Vdc
Operating temperature	-10℃~+50℃
DC OUTPUT	
DC output power	5W Max.
DC output socket	5V1A USB *1
DISPLAY	
LED indicators	4pcs SOC indicators,1 pcs working status indicators
Protection functions	Overcharge, overdischarge, overcurrent, short-circuit and overtemperature protection.
AMBIENT CONDITIONS	
Noise (dB)	<40dB(1meter)
Operating temperature	-10℃~+50℃
Humidity	5~95%(no condensation)
Max. altitude (m)	≤2000
DIMENSIONS	
Product dimensions (L x W x H, mm)	360x90x500mm
Package dimensions (L x W x H, mm)	580x445x170mm
Net weight (kg)	19.0Kg
Gross weight (kg)	19.9Kg

ALL-IN-ONE ENERGY STORAGE



MODEL

ESS 3.6KW+5KWH

ESS 3.6KW+8KWH

KEY FEATURES

- 3.6 kW rated output
- 5 / 8 kWh nominal energy
- Built-in MPPT solar charger
- Pure sine-wave output
- Wi-Fi monitoring

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	ESS 3.6KW+5KWH	ESS 3.6KW+8KWH
AC INPUT		
Rated input voltage (VAC)	208 / 220 / 230 / 240; L + N + PE	
Input voltage range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)	
Input frequency (Hz)	50 / 60 (auto-adaptive)	
AC OUTPUT		
Rated power (kW)	3.6	
Output voltage (VAC)	208 / 220 / 230 / 240	
Power factor	1	
Output frequency	50/60Hz±0.1%	
Transfer time (ms)	10	
Output waveform	Pure sine wave	
Overload capacity (battery mode)	60s@102%~110% ; 10s@110%~130%; 3s@130%~150% ; 0.2s@>150%;	
Max. efficiency (battery mode)	92.7%@24VDC	
CHARGER (PV / AC)		
Solar charger type	MPPT	
Max. PV input current / power	18A / 5000W	
PV operating voltage range (VDC)	40~450	
Max. PV open-circuit voltage (VDC)	500	
Max. PV charge current (A)	100	
Max. AC charge current (A)	100	
Max. charge current (PV + AC) (A)	100	
BATTERY		
Nominal battery voltage	25.6VDC	25.6VDC
Rated energy	5KWh(0.2C , 25°C)	8KWh(0.2C , 25°C)
Usable energy (90% DOD)	4.5KWh	7.2KWh
Max. charge / discharge current	100A/150A	100A/150A
Operating voltage range	20Vdc ~ 29.2Vdc	20Vdc ~ 29.2Vdc
Operating temperature	-10°C ~ +50°C	-10°C ~ +50°C
INTERFACE		
Display	LCD	
Communication	USB	
Monitoring	WiFi	
GENERAL DATA		
Ingress protection	IP20	
Operating temperature	-10 ℃ ~ 50 ℃	
Relative humidity	5% ~ 95% (Non-condensing)	
Storage temperature	-15 ℃ ~ 60 ℃	
Max. operating altitude	4000m (Derating above 1000m)	
DIMENSIONS		
Product dimensions (L x W x H, mm)	440*246*760mm	
Package dimensions (L x W x H, mm)	520*436*890mm	
Net weight (kg)	58kg	73kg
Gross weight (kg)	73kg	86kg

ALL-IN-ONE ENERGY STORAGE



MODEL

ESS 6KW+16KWH

COMPACT CABINET

KEY FEATURES

- 6 kW rated output
- 16 kWh nominal energy
- Compact cabinet with wheels
- Built-in MPPT solar charger
- Wi-Fi monitoring

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	ESS 6KW+16KWH
AC INPUT	
Rated input voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Input voltage range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Input frequency (Hz)	50 / 60 (auto-adaptive)
AC OUTPUT	
Rated power (kW)	6
Output voltage (VAC)	208 / 220 / 230 / 240
Power factor	1
Output frequency	50/60Hz±0.1%
Transfer time (ms)	10
Output waveform	Pure sine wave
Overload capacity (battery mode)	60s@102%~110% ; 10s@110%~130%; 3s@130%~150% ; 0.2s@>150%;
Max. efficiency (battery mode)	93%@48VDC
CHARGER (PV / AC)	
Solar charger type	MPPT
Max. PV input current / power	27A/9000W
PV operating voltage range (VDC)	80-450
Max. PV open-circuit voltage (VDC)	500
Max. PV charge current (A)	120
Max. AC charge current (A)	120
Max. charge current (PV + AC) (A)	120
BATTERY	
Nominal battery voltage	51.2VDC
Rated energy	16KWh(0.5C , 25℃)
Usable energy (90% DOD)	14.4KWh
Max. charge / discharge current	150A/150A
Operating voltage range	40.0Vdc ~ 58.4Vdc
Operating temperature	-10℃ ~ +50℃
INTERFACE	
Display	LCD
Communication	USB
Monitoring	WiFi
GENERAL DATA	
Ingress protection	IP20
Operating temperature	-10 ℃ ~ 50 ℃
Relative humidity	5% ~ 95% (Non-condensing)
Storage temperature	-15 ℃ ~ 60 ℃
Max. operating altitude	4000m (Derating above 1000m)
DIMENSIONS	
Product dimensions (L x W x H, mm)	430*481*736mm
Package dimensions (L x W x H, mm)	540*510*895mm
Net weight (kg)	136kg
Gross weight (kg)	159kg

HYBRID ALL-IN-ONE ESS



MODEL

ESS HX 6KW+16KWH

KEY FEATURES

- 6 kW grid and backup outputs
- 16 kWh nominal energy
- IP65 enclosure
- Generator compatibility
- Wi-Fi monitoring

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	ESS HX 6KW+16KWH
PV INPUT	
Max. PV input power (kW)	9
Max. PV open-circuit voltage (V)	550
MPPT voltage range (VDC)	80~520
Full-power MPPT voltage range (VDC)	250-500V
Start-up voltage (VDC)	90
Max. input current per MPPT (A)	19/19
Max. short-circuit current (A)	25/25
MPPT trackers / strings	2 /1
Nominal input voltage (V)	360
AC OUTPUT (ON-GRID)	
Nominal output power to grid (kW)	6
Max. apparent power to grid (kVA)	6
Max. apparent power from grid (kVA)	6
Max. apparent current from grid (A)	26.1
Nominal output current from grid (A)	26.1
Max. output current to grid (A)	26.1
Nominal voltage / frequency	230V(176V~280V), 50/60Hz, L+N+PE
Adjustable power factor	0.8leading~0.8lagging
Current harmonic distortion (THDi)	<2%
AC OUTPUT (BACKUP)	
Nominal output power (kW)	6
Max. apparent power (kVA)	6
Nominal output current (A)	26.1
Max. output current (A)	26.1
Nominal voltage / frequency	230V(176V~238V), 50/60Hz,L+N+PE
Automatic transfer time (ms)	<20
Voltage harmonic distortion (THDu)	<2%
Overload capacity	110%,10s /130%,3s /150%,50ms
EFFICIENCY	
Max. efficiency	96.65%
European efficiency	97.50%
MPPT efficiency	99.00%
Max. battery charge / discharge efficiency	94.60%
BATTERY	
Nominal battery voltage	51.2VDC
Rated energy	16KWh(0.5C , 25°C)
Usable energy (90% DOD)	14.4KWh
Max. charge / discharge current	120A/120A
Operating voltage range	40.0Vdc ~ 58.4Vdc
Operating temperature	-10°C ~ +50°C
Display	LCD
Communication	RS485/RS232
Monitoring	WiFi
GENERAL DATA	
Ingress protection	IP65
Operating temperature	-10°C~ 50°C
Relative humidity	5%~95%(Non-condensing)
Storage temperature	-15 °C~ 60°C
Max. operating altitude	4000m (Derating above 1000m)
DIMENSIONS	
Product dimensions (mm)	600x245x1300mm
Package dimensions (mm)	1370x700x420mm
Net weight (kg)	167Kg
Gross weight (kg)	197Kg

ALL-IN-ONE ENERGY STORAGE



MODEL

ESS 6KW+10KWH

ESS 6KW+16KWH

TALL CABINET

KEY FEATURES

- 6 kW rated output
- 10 / 16 kWh nominal energy
- Parallel operation support
- Pure sine-wave output
- Wi-Fi monitoring

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	ESS 6KW+10KWH	ESS 6KW+16KWH
AC INPUT		
Rated input voltage (VAC)	208 / 220 / 230 / 240; L + N + PE	
Input voltage range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)	
Input frequency (Hz)	50 / 60 (auto-adaptive)	
AC OUTPUT		
Rated power (kW)	6	
Output voltage (VAC)	208 / 220 / 230 / 240	
Power factor	1	
Output frequency	50/60Hz±0.1%	
Transfer time (ms)	10	
Output waveform	Pure sine wave	
Overload capacity (battery mode)	60s@102%~110% ; 10s@110%~130%; 3s@130%~150% ; 0.2s@>150%;	
Max. efficiency (battery mode)	93%@48VDC	
CHARGER (PV / AC)		
Solar charger type	MPPT	
Max. PV input current / power	27A/9000W	
PV operating voltage range (VDC)	80-450	
Max. PV open-circuit voltage (VDC)	500	
Max. PV charge current (A)	120	
Max. AC charge current (A)	120	
Max. charge current (PV + AC) (A)	120	
BATTERY		
Nominal battery voltage	51.2VDC	51.2VDC
Rated energy	10KWh(0.5C , 25℃)	16KWh(0.5C , 25℃)
Usable energy (90% DOD)	9KWh	14.4KWh
Max. charge / discharge current	150A/150A	150A/150A
Operating voltage range	40.0Vdc ~ 58.4Vdc	40.0Vdc ~ 58.4Vdc
Operating temperature	-10℃ ~ +50℃	-10℃ ~ +50℃
INTERFACE		
Display	LCD	
Communication	USB	
Monitoring	WiFi	
GENERAL DATA		
Ingress protection	IP20	
Operating temperature	-10 ℃ ~ 50 ℃	
Relative humidity	5% ~ 95% (Non-condensing)	
Storage temperature	-15 ℃ ~ 60 ℃	
Max. operating altitude	4000m (Derating above 1000m)	
DIMENSIONS		
Product dimensions (L x W x H, mm)	460x245x1100mm	550x245x1180mm
Package dimensions (L x W x H, mm)	1180x540x420mm	630x420x1264mm
Net weight (kg)	118kg	147kg
Gross weight (kg)	135kg	168kg

ALL-IN-ONE ENERGY STORAGE



MODEL

ESS 12KW+16KWH

KEY FEATURES

- 12 kW rated output
- 16 kWh nominal energy
- Dual MPPT inputs
- Parallel operation support
- Wi-Fi monitoring

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	ESS 12KW+16KWH
AC INPUT	
Rated input voltage (VAC)	220/230/240;L+N+PE
Input voltage range (VAC)	90~280+3 (normal mode); 170~280+3 (UPS mode)
Input frequency (Hz)	50Hz/60Hz (Auto detection)
AC OUTPUT	
Rated power (W)	12000W
Output voltage (VAC)	220/230/240
Power factor	1
Output frequency	50/60Hz+0.1%
Transfer time (ms)	10(APP/UPS mode), 20(GEN mode)
Output waveform	Pure Sine Wave
Overload protection	(105% < load <110%) ±5%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds; Load >125% ±5%: report error and turn off the output after 5 seconds
Max. efficiency (battery mode)	94%@48VDC
CHARGER (PV / AC)	
Solar charger type	Dual MPPTs
Max. PV input current / power	1*MPPT: 27A/9KW , 2*MPPTs: 22.5A/15kW
PV operating voltage range (VDC)	60Vdc~450Vdc
Max. PV open-circuit voltage (VDC)	500Vdc
Max. PV charge current (A)	160A
Max. AC charge current (A)	160A
Max. charge current (PV + AC) (A)	160A
BATTERY	
Nominal battery voltage	51.2VDC
Rated energy	16KWh(0.5C , 25℃)
Usable energy (90% DOD)	14.4KWh
Max. charge / discharge current	200A/200A
Operating voltage range	40.0Vdc ~ 58.4Vdc
Operating temperature	-10℃ ~ +50℃
INTERFACE	
Display	LCD
Communication	RS485 / RS232 / USB
Monitoring	WiFi
GENERAL DATA	
Ingress protection	IP20
Operating temperature	-10 ℃ ~ 50 ℃
Relative humidity	5% ~ 95% (Non-condensing)
Storage temperature	-15 ℃ ~ 60 ℃
Max. operating altitude	4000m (Derating above 1000m)
DIMENSIONS	
Product dimensions (L x W x H, mm)	550x245x1180mm
Package dimensions (L x W x H, mm)	630x420x1264mm
Net weight (kg)	152kg
Gross weight (kg)	173kg

SPLIT-PHASE ALL-IN-ONE ESS

US configuration



MODEL

ESS HY 10KW+30KWH

ESS HY 12KW+30KWH

KEY FEATURES

- 10 / 12 kW rated output
- 120 / 240 V split-phase output
- 30,720 Wh nominal energy
- Generator compatibility
- Wi-Fi monitoring

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

Arktos

SPECIFICATIONS

MODEL	ESS HY 10KW+30KWH	ESS HY 12KW+30KWH
AC INPUT		
Rated input voltage (VAC)	120(L1/N,L2/N)240(L1/L2)	
Input voltage range (VAC)	(85~140)±2%	
Input frequency (Hz)	50Hz/60Hz (Auto detection)	
AC OUTPUT		
Rated power (W)	10000W	12000W
Output voltage (VAC)	120(L1/N,L2/N)240(L1/L2)	
Power factor	1	
Output frequency	50/60Hz+0.1%	
Transfer time (ms)	10	
Output waveform	Pure Sine Wave	
Overload protection	(105% < load <110%) ±5%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds; Load >125% ±5%: report error and turn off the output after 5 seconds	
Max. efficiency (battery mode)	>95%	
CHARGER (PV / AC)		
Solar charger type	Dual MPPTs	
Max. PV input current / power	22A+22A/5KW+5KW	22A+22A/6KW+6KW
PV operating voltage range (VDC)	90Vdc~485Vdc	
Max. PV open-circuit voltage (VDC)	500Vdc	
Max. PV charge current (A)	200A	220A
Max. AC charge current (A)	120A	160A
Max. charge current (PV + AC) (A)	0-200A	0-220A
BATTERY		
Nominal battery voltage	51.2VDC	
Rated energy	30720Wh(0.5C , 25°C)	
Usable energy (90% DOD)	27.6KWh	
Max. charge / discharge current	200A/200A	
Operating voltage range	40.0Vdc ~ 58.4Vdc	
Operating temperature	-10℃ ~ +50℃	
INTERFACE		
Display	LCD	
Communication	RS485 / RS232 / USB / Dry Contact	
Monitoring	WiFi	
GENERAL DATA		
Ingress protection	IP21	
Operating temperature	-10 ℃ ~ 50 ℃	
Relative humidity	5% ~ 95% (Non-condensing)	
Storage temperature	-15 ℃ ~ 60 ℃	
Max. operating altitude	4000m (Derating above 1000m)	
DIMENSIONS		
Product dimensions (L x W x H, mm)	695x298x1550mm	
Package dimensions (L x W x H, mm)	755x480x1630mm	
Net weight (kg)	255kg	
Gross weight (kg)	283kg	

ALL-IN-ONE ENERGY STORAGE



MODEL

ESS 12KW+30KWH

KEY FEATURES

- 12 kW rated output
- 30 kWh nominal energy
- Dual MPPT inputs
- Generator compatibility
- Wi-Fi monitoring

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	ESS 12KW+30KWH
AC INPUT	
Rated input voltage (VAC)	220/230/240;L+N+PE
Input voltage range (VAC)	90~280+3 (normal mode); 170~280+3 (UPS mode)
Input frequency (Hz)	50Hz/60Hz (Auto detection)
AC OUTPUT	
Rated power (W)	12000W
Output voltage (VAC)	220/230/240
Power factor	1
Output frequency	50/60Hz+0.1%
Transfer time (ms)	10(APP/UPS mode), 20(GEN mode)
Output waveform	Pure Sine Wave
Overload protection	(105% < load <110%) ±5%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds; Load >125% ±5%: report error and turn off the output after 5 seconds
Max. efficiency (battery mode)	94%@48VDC
CHARGER (PV / AC)	
Solar charger type	Dual MPPTs
Max. PV input current / power	1*MPPT: 27A/9KW , 2*MPPTs: 22.5A/15kW
PV operating voltage range (VDC)	60Vdc~450Vdc
Max. PV open-circuit voltage (VDC)	500Vdc
Max. PV charge current (A)	160A
Max. AC charge current (A)	160A
Max. charge current (PV + AC) (A)	160A
BATTERY	
Nominal battery voltage	51.2VDC
Rated energy	30KWh(0.5C , 25℃)
Usable energy (90% DOD)	27KWh
Max. charge / discharge current	200A/200A
Operating voltage range	44.8Vdc ~ 58.4Vdc
Operating temperature	-10℃ ~ +50℃
INTERFACE	
Display	LCD
Communication	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi
GENERAL DATA	
Ingress protection	IP20
Operating temperature	-10 ℃ ~ 50 ℃
Relative humidity	5% ~ 95% (Non-condensing)
Storage temperature	-15 ℃ ~ 60 ℃
Max. operating altitude	4000m (Derating above 1000m)
DIMENSIONS	
Product dimensions (L x W x H, mm)	695x298x1550mm
Package dimensions (L x W x H, mm)	755x480x1630mm
Net weight (kg)	280kg
Gross weight (kg)	303kg

STACKABLE ALL-IN-ONE ESS

MODEL

ESS 10KW+30KWH

ESS 12KW+60KWH



KEY FEATURES

- Modular stackable design
- 10 / 12 kW rated output
- Two / four battery modules
- Dual MPPT inputs
- Wi-Fi monitoring

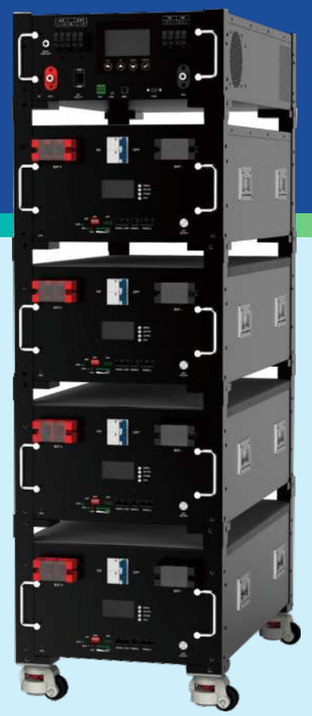
PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	ESS 10KW+30KWH	ESS 12KW+60KWH
AC INPUT		
Rated input voltage (VAC)	220/230/240;L+N+PE	
Input voltage range (VAC)	90~280+3 (normal mode); 170~280+3 (UPS mode)	
Input frequency (Hz)	50Hz/60Hz (Auto detection)	
AC OUTPUT		
Rated power (W)	10000W	12000W
Output voltage (VAC)	220/230/240	
Power factor	1	
Output frequency	50/60Hz+0.1%	
Transfer time (ms)	10(APP/UPS mode), 20(GEN mode)	
Output waveform	Pure Sine Wave	
Overload protection	(105% < load <110%) ±5%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds; Load >125% ±5%: report error and turn off the output after 5 seconds	
Max. efficiency (battery mode)	94%@48VDC	
CHARGER (PV / AC)		
Solar charger type	Dual MPPTs	
Max. PV input current / power	1*MPPT: 27A/9KW , 2*MPPTs: 22.5A/15kW	
PV operating voltage range (VDC)	60Vdc~450Vdc	
Max. PV open-circuit voltage (VDC)	500Vdc	
Max. PV charge current (A)	160A	
Max. AC charge current (A)	160A	
Max. charge current (PV + AC) (A)	160A	
BATTERY		
Nominal battery voltage	51.2VDC	
Rated energy	15360Wh*2	15360Wh*4
Usable energy (90% DOD)	27.6KWh	55.3KWh
Max. charge / discharge current	200A/200A	
Operating voltage range	40.0Vdc ~ 58.4Vdc	
Operating temperature	-10℃ ~ +50℃	
INTERFACE		
Display	LCD	
Communication	RS485 / RS232 / USB / Dry Contact	
Monitoring	WiFi	
GENERAL DATA		
Ingress protection	IP21	
Operating temperature	-10 ℃ ~ 50 ℃	
Relative humidity	5% ~ 95% (Non-condensing)	
Storage temperature	-15 ℃ ~ 60 ℃	
Max. operating altitude	4000m (Derating above 1000m)	
DIMENSIONS		
Product dimensions (L x W x H, mm)	Inverter:680x520x182mm/Battery:680x520x246mm(1PCS)	
Package dimensions (L x W x H, mm)	Inverter:736X576X336mm/Battery:760X600X444mm(1PCS)	
Net weight (kg)	Inverter:29Kg / Battery:119Kg(1PCS)	
Gross weight (kg)	Inverter:33Kg / Battery:139Kg(1PCS)	

RACK-MOUNTED ALL-IN-ONE ESS



MODEL

ESS 12KW+64KWH

KEY FEATURES

- Rack-mounted modular design
- 12 kW rated output
- 64 kWh nominal energy
- Dual MPPT inputs
- Wi-Fi monitoring

PROJECT SELECTION

Share the model, voltage and required configuration with Arktos.

SPECIFICATIONS

MODEL	ESS 12KW+64KWH
AC INPUT	
Rated input voltage (VAC)	220/230/240;L+N+PE
Input voltage range (VAC)	90~280+3 (normal mode); 170~280+3 (UPS mode)
Input frequency (Hz)	50Hz/60Hz (Auto detection)
AC OUTPUT	
Rated power (W)	12000W
Output voltage (VAC)	220/230/240
Power factor	1
Output frequency	50/60Hz+0.1%
Transfer time (ms)	10(APP/UPS mode), 20(GEN mode)
Output waveform	Pure Sine Wave
Overload protection	(105% < load <110%) ±5%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds; Load >125% ±5%: report error and turn off the output after 5 seconds
Max. efficiency (battery mode)	94%@48VDC
CHARGER (PV / AC)	
Solar charger type	Dual MPPTs
Max. PV input current / power	1*MPPT: 27A/9KW , 2*MPPTs: 22.5A/15kW
PV operating voltage range (VDC)	60Vdc~450Vdc
Max. PV open-circuit voltage (VDC)	500Vdc
Max. PV charge current (A)	160A
Max. AC charge current (A)	160A
Max. charge current (PV + AC) (A)	160A
BATTERY	
Nominal battery voltage	51.2VDC
Rated energy	64KWh(0.5C , 25℃)
Usable energy (90% DOD)	57.6KWh
Max. charge / discharge current	400A/400A
Operating voltage range	40.0Vdc ~ 58.4Vdc
Operating temperature	-10℃ ~ +50℃
INTERFACE	
Display	LCD
Communication	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi
GENERAL DATA	
Ingress protection	IP21
Operating temperature	-10 ℃ ~ 50 ℃
Relative humidity	5% ~ 95% (Non-condensing)
Storage temperature	-15 ℃ ~ 60 ℃
Max. operating altitude	4000m (Derating above 1000m)
DIMENSIONS	
Product dimensions (L x W x H, mm)	Inverter:745X440x176mm/Battery:745X440X240mm(1PCS)
Package dimensions (L x W x H, mm)	Inverter:836X496X232mm/Battery:840X520X430mm(1PCS)
Net weight (kg)	Inverter:30Kg / Battery:122Kg(1PCS)
Gross weight (kg)	Inverter:33Kg / Battery:138Kg(1PCS)