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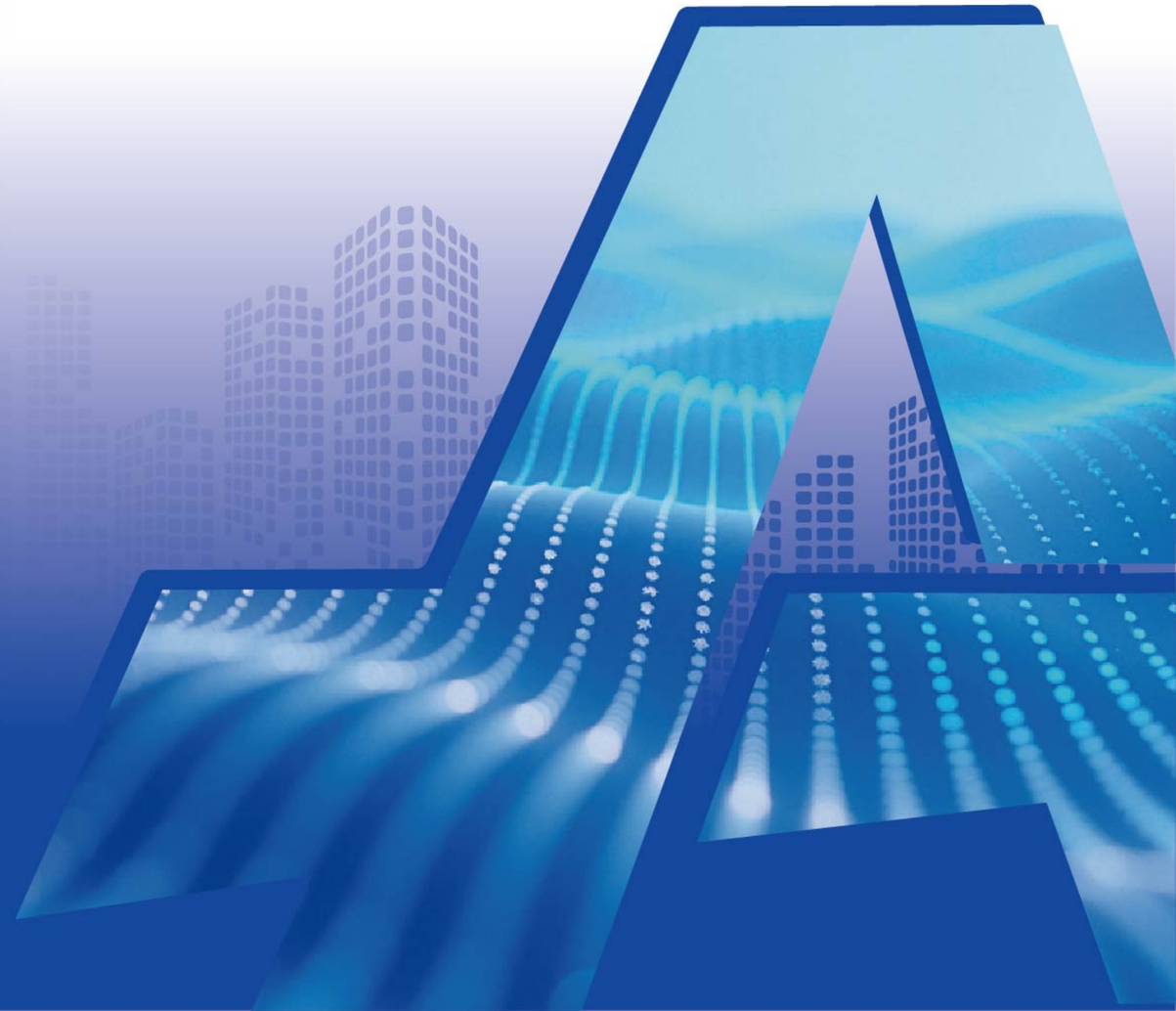
Arktos

Smart Lighting. Smarter Energy

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

SOLAR INVERTERS & ENERGY STORAGE

ENGLISH EDITION



ABOUT US

Arktos is a Canadian brand focused on commercial lighting and energy solutions.

This international catalogue brings together solar inverters, lithium batteries and all-in-one energy storage systems.

Contact our team with your application, electrical requirements and preferred configuration for product selection.

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INTERNATIONAL EDITION

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Model names retained; same-name cabinet variants are listed separately.

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

OFF-GRID INVERTER

Single-phase



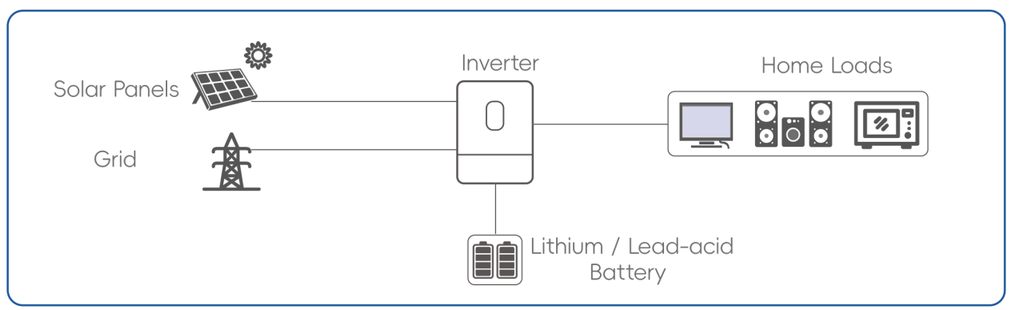
MODEL

INV1200-12

KEY FEATURES

- LCD display
- Supports lithium and lead-acid batteries
- Pure sine wave
- MPPT charging

SYSTEM OVERVIEW



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SPECIFICATIONS

MODEL	INV1200-12
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)	1.2
Surge power (kVA)	2.4
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)	90%@12VDC
CHARGER (PV / AC)	
Solar charger type	MPPT
Max. PV input current / power	14A / 1000W
PV operating voltage range (VDC)	18~100
Max. PV open-circuit voltage (VDC)	125
Max. PV charge current (A)	60
Max. AC charge current (A)	60
Max. charge current (PV + AC) (A)	120
BATTERY	
Nominal voltage (VDC)	12.8
Float charge voltage (VDC)	14
Overcharge protection (VDC)	14.6
Battery type	Lithium and Lead-acid
INTERFACE	
Display	LCD
Communication	RS485/USB
GENERAL DATA	
Ingress protection	IP21
Operating temperature	-10 ℃~ 50 ℃
Relative humidity	5% ~ 95% (Non-condensing)
Storage temperature	-15 ℃~ 60 ℃
Net / gross weight (kg)	3.8/4.6
Product dimensions (W x H x D, mm)	226x330x110mm
Package dimensions (W x H x D, mm)	410x306x160mm
Max. operating altitude	4000m (Derating above 1000m)
ACTIVATION	
AC activation	YES
PV activation	YES

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

ON/OFF-GRID INVERTER

Single-phase



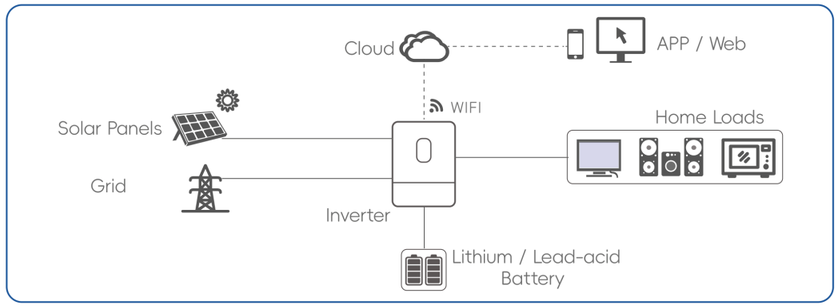
MODEL

INV3600-24

KEY FEATURES

- 3.6 kW rated power
- LCD display
- Lithium/lead-acid battery support
- Optional Wi-Fi monitoring

SYSTEM OVERVIEW



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SPECIFICATIONS

MODEL	INV 3600-24
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
Surge power (kVA)	5.7
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 voltage (VDC)	24
Float charge voltage (VDC)	28
Overcharge protection (VDC)	29.2
Battery type	Lithium and Lead-acid
INTERFACE	
Display	LCD
Communication	DRY/RS485/USB
Monitoring	WiFi (Optional)
GENERAL DATA	
Ingress protection	IP21
Operating temperature	-10 ℃~ 50 ℃
Relative humidity	5% ~ 95% (Non-condensing)
Storage temperature	-15 ℃~ 60 ℃
Net / gross weight (kg)	6.3/7.3
Product dimensions (W x H x D, mm)	289x420x100mm
Package dimensions (W x H x D, mm)	369x500x160mm
Max. operating altitude	4000m(Derating above 1000m)

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

ON/OFF-GRID INVERTER

Single-phase



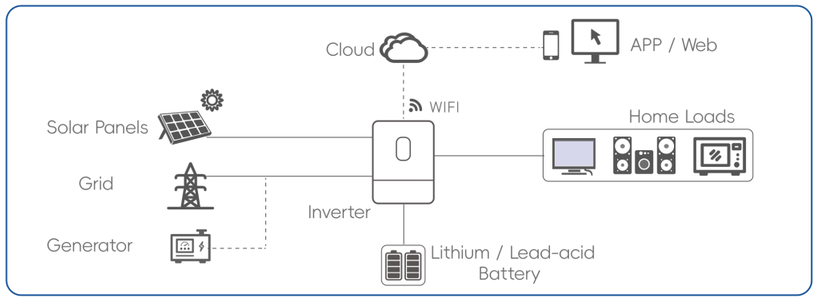
MODEL

INV5000-24

KEY FEATURES

- 5 kW rated power
- LCD display
- Lithium/lead-acid battery support
- Optional Wi-Fi monitoring

SYSTEM OVERVIEW



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SPECIFICATIONS

MODEL	INV 5000-24
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)	5
Surge power (kVA)	10
Output voltage (VAC)	208 / 220 / 230 / 240
Power factor	1
Output frequency	50/60Hz±0.1%
Transfer time (ms)	10 (normal mode) / 10 (UPS mode)
Output waveform	Pure Sine Wave
Overload capacity (battery mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. efficiency (battery mode)	93%@24VDC
Parallel quantity	9
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)	160A
Max. AC charge current (A)	160A
Max. charge current (PV + AC) (A)	160A
BATTERY	
Nominal voltage (VDC)	24V
Float charge voltage (VDC)	28V
Overcharge protection (VDC)	29.2V
Battery type	Lithium and Lead-acid
INTERFACE	
Display	LCD
Communication	RS485/USB
Monitoring	WiFi (Optional)
GENERAL DATA	
Ingress protection	IP21
Operating temperature	-10 ℃~ 50℃
Relative humidity	5% ~ 95% (Non-condensing)
Storage temperature	-15 ℃~ 60℃
Net / gross weight (kg)	8.5/9.5
Product dimensions (W x H x D, mm)	392.5x325x130mm
Package dimensions (W x H x D, mm)	472.5X405X210mm
Max. operating altitude	4000m(Derating above 1000m)

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ON/OFF-GRID INVERTER

Single-phase



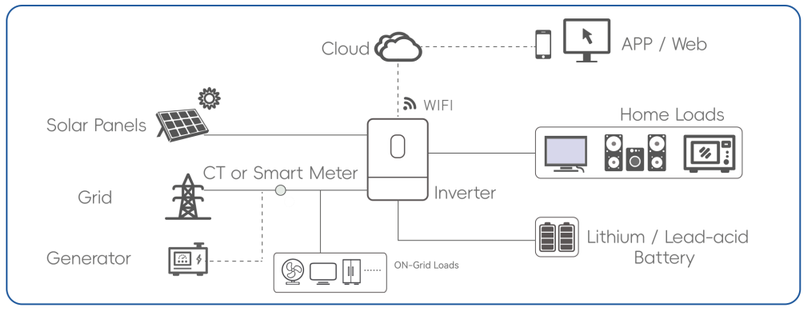
MODEL

INV6500-48

KEY FEATURES

- 6.5 kW rated power
- Up to 9 inverters in parallel
- Lithium/lead-acid battery support
- Optional Wi-Fi monitoring

SYSTEM OVERVIEW



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SPECIFICATIONS

MODEL	INV 6500-48
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)	6.5
Surge power (kVA)	12
Output voltage (VAC)	208 / 220 / 230 / 240
Power factor	1
Output frequency	50/60Hz±0.1%
Transfer time (ms)	10 (normal mode) / 10 (UPS mode)
Output waveform	Pure Sine Wave
Overload capacity (battery mode)	10min@102%~120%Load, 1min@120%~150%Load 10S@150%~200%Load, 5s@>200%Load
Max. efficiency (battery mode)	93%@48VDC
Parallel quantity	9
CHARGER (PV / AC)	
Solar charger type	MPPT
Max. PV input current / power	19A+19A/9000W
PV operating voltage range (VDC)	80-520
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 voltage (VDC)	48
Float charge voltage (VDC)	56
Overcharge protection (VDC)	60
Battery type	Lithium and Lead-acid
INTERFACE	
Display	LCD
Communication	RS485 / USB / CT (Optional)
Monitoring	WiFi (Optional)
GENERAL DATA	
Ingress protection	IP21
Operating temperature	-10 ℃ ~ 50 ℃
Relative humidity	5% ~ 95% (Non-condensing)
Storage temperature	-15 ℃ ~ 60 ℃
Net / gross weight (kg)	8.5/9.5
Product dimensions (W x H x D, mm)	392.5x325x130mm
Package dimensions (W x H x D, mm)	472.5X405X210mm
Max. operating altitude	4000m(Derating above 1000m)

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

ON/OFF-GRID INVERTER

Single-phase



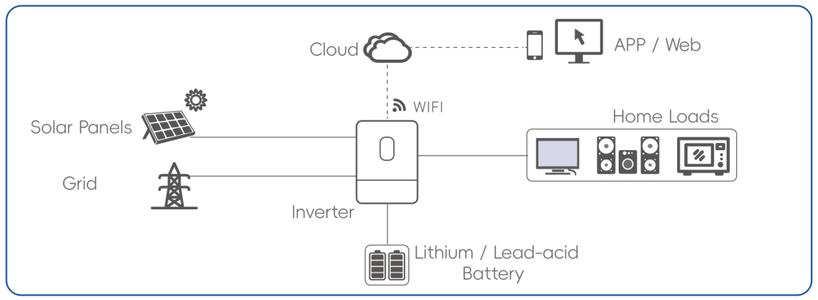
MODEL

INV10200-48

KEY FEATURES

- 10.2 kW rated power
- Dual AC output
- Dual MPPT
- Optional Wi-Fi monitoring

SYSTEM OVERVIEW



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SPECIFICATIONS

MODEL	INV 10200-48
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)	10.2
Surge power (kVA)	20.4
Output voltage (VAC)	208 / 220 / 230 / 240
Power factor	1
Output frequency	50/60Hz±0.1%
Transfer time (ms)	10 (normal mode) /10 (UPS mode)
Output waveform	Pure Sine Wave
Overload capacity (battery mode)	10min@102%~120%Load, 1min@120%~150%Load 10S@150%~200%Load, 5s@>200%Load
Max. efficiency (battery mode)	93%@48VDC
Parallel quantity	NA
CHARGER (PV / AC)	
Solar charger type	Dual MPPTS
Max. PV input current / power	Using One MPPT: 27A9KW Using Two MPPTs: 22.5AVPer MPPT, 15kW/Total
PV operating voltage range (VDC)	60-450
Max. PV open-circuit voltage (VDC)	500
Max. PV charge current (A)	160
Max. AC charge current (A)	160
Max. charge current (PV + AC) (A)	160
BATTERY	
Nominal voltage (VDC)	48
Float charge voltage (VDC)	56
Overcharge protection (VDC)	58.4
Battery type	Lithium and Lead-acid
INTERFACE	
Display	LCD
Communication	RS485/USB
Monitoring	WiFi (optional: none/ built-in / external)
GENERAL DATA	
Ingress protection	IP21
Operating temperature	-10 ℃ ~ 50 ℃
Relative humidity	5% ~ 95% (Non-condensing)
Storage temperature	-15 ℃ ~ 60 ℃
Net / gross weight (kg)	15.1/17.1
Product dimensions (W x H x D, mm)	425x495x132mm
Package dimensions (W x H x D, mm)	551x491x191mm
Max. operating altitude	4000m(Derating above 1000m)

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

ON/OFF-GRID INVERTER

Single-phase



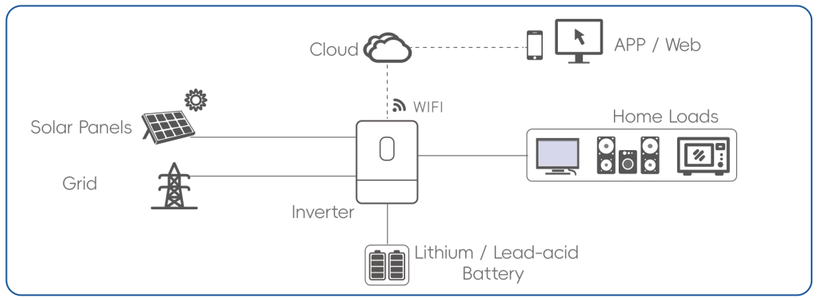
MODEL

INV12000-48

KEY FEATURES

- 12 kW rated power
- Dual AC output
- Dual MPPT
- Up to 6 inverters in parallel

SYSTEM OVERVIEW



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SPECIFICATIONS

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MODEL	INV 12000-48
AC INPUT	
Rated input voltage (VAC)	220/230V240; 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)	12
Surge power (kVA)	24
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 capacity (battery mode)	1min@102%-125%Load ; 10s@>125%Load
Max. efficiency (battery mode)	94%@48VDC
Parallel quantity	6
CHARGER (PV / AC)	
Solar charger type	Dual MPPTS
Max. PV input current / power	Using One MPPT: 27A9KW Using Two MPPTs: 22.5AVPer MPPT, 15kW/Total
PV operating voltage range (VDC)	60-450
Max. PV open-circuit voltage (VDC)	500
Max. PV charge current (A)	160
Max. AC charge current (A)	160
Max. charge current (PV + AC) (A)	160
BATTERY	
Nominal voltage (VDC)	48
Float charge voltage (VDC)	56
Overcharge protection (VDC)	58.4
Battery type	Lithium and Lead-acid
INTERFACE	
Display	LCD
Communication	RS485/USB
Monitoring	WiFi (optional: none/ built-in / external)
GENERAL DATA	
Ingress protection	IP21
Operating temperature	-10℃-60℃
Relative humidity	5%~95% (Non-condensing)
Storage temperature	-15℃~60℃
Net / gross weight (kg)	15.1/17.1
Product dimensions (W x H x D, mm)	425x495x132mm
Package dimensions (W x H x D, mm)	551x491x191mm
Max. operating altitude	4000m(Derating above 1000m)

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

HYBRID INVERTER

Single-phase



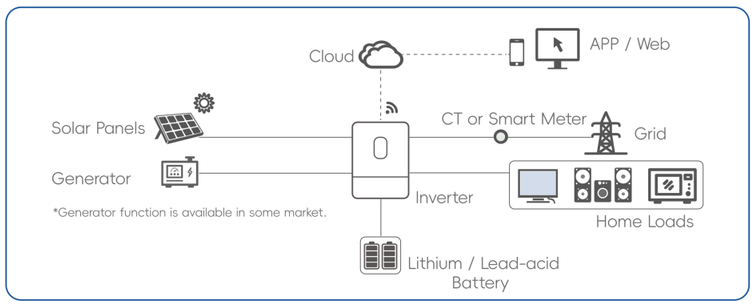
MODEL

EU-S6000-48

KEY FEATURES

- 6 kW nominal output
- 2 MPPT trackers
- IP66 protection
- LCD and app interface

SYSTEM OVERVIEW



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SPECIFICATIONS

MODEL	EU-S6000-48
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	
Battery voltage range (V)	40~60
Recommended battery voltage (V)	48
Max. charging voltage (V)	60
Max. charge / discharge current (A)	120/120
Battery type	Lithium and Lead Acid Battery
PROTECTION	
DC switch	Yes
DC reverse-polarity protection	Yes
DC / AC surge protection	Type III/Type III
AC overvoltage protection	Yes
AC short-circuit protection	Yes
Ground-fault monitoring	Yes
Anti-islanding protection	Yes
Residual-current monitoring	Yes
Insulation resistance monitoring	Yes
Peak / valley time settings	Yes
GENERAL DATA	
Human-machine interface (HMI)	LCD & APP
Battery management system (BMS)	RS485; CAN
EMS / meter	RS485
Communication	WiFi/LAN
Ingress protection	Ip66
Operating temperature range	-25~60℃
Relative humidity	0~95%(Non-condensing)
Max. operating altitude	4000m(Derating above 3000m)
Cooling	Natural
Noise emission	≤29dB
Dimensions (W x H x D)	486*528*230mm
Net weight (kg)	24
Self-consumption (W)	<15
STANDARD COMPLIANCE	
Safety regulations	IEC/EN62109-1/-2
Electromagnetic compatibility (EMC)	IEC/EN61000-6-1/-2/-3/-4
Grid regulations	IEC61727; Europe: EN50549; Belgium: C10/11; Spain: NTS-631; Italy: CEI 021

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THREE-PHASE HYBRID INVERTER

Low-voltage



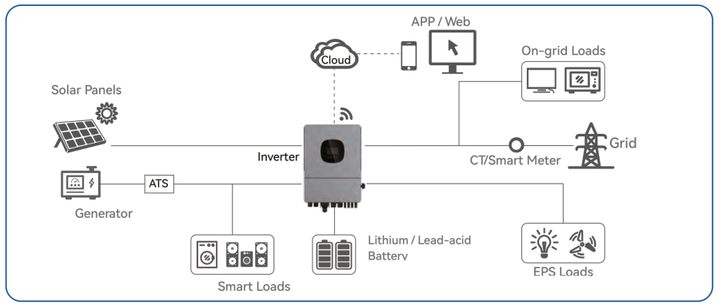
MODEL

TP-LV-S15000

KEY FEATURES

- 15 kW rated output
- Wi-Fi monitoring
- Supports lithium/lead-acid batteries
- IP65 protection

SYSTEM OVERVIEW



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SPECIFICATIONS

MODEL	TP-LV-S15000
PV INPUT	
Max. PV input power (kW)	22.5
Max. PV open-circuit voltage (V)	1000
MPPT operating voltage range (VDC)	120~950
Full-power MPPT voltage range (VDC)	380~850
Start-up voltage (VDC)	120
Rated input voltage (V)	780
Max. input current per MPPT channel (A)	30/30
Max. short-circuit current (A)	36/36
Number of MPPT trackers	2
Strings per MPPT tracker	2/2
AC OUTPUT (GRID-TIED)	
Rated apparent power to grid (kVA)	15
Max. apparent power to grid (kVA)	16.5
Max. output current to grid (A)	23.9
Rated apparent power from grid (kVA)	15
Max. apparent power from grid (kVA)	24
Max. input current from grid (A)	34.7
Rated voltage (V) / frequency (Hz)	220/380,230/400,240/415,50/60,L1/L2/L3+N+PE
Adjustable power factor	0.8leading-0.8lagging
Total harmonic current distortion (THDi)	<3%
AC OUTPUT (BACKUP)	
Rated output power (kW)	15
Max. apparent power (kVA)	16.5
Max. output current (A)	23.9
Rated voltage (V) / frequency (Hz)	220/380,230/400,240/415,50/60,L1/L2/L3+N+PE
Automatic transfer time (ms)	<10
Total harmonic voltage distortion (THDu)	<2%
Overload capacity	110%,long term/150%,3min/180%,2min/200%,10s
EFFICIENCY	
Max. efficiency	97.30%
European efficiency	97.00%
Max. battery charge / discharge efficiency	94.10%
BATTERY PARAMETERS	
Battery voltage range (V)	40-60
Max. charge / discharge current (A)	290/290
Max. charge / discharge power (kW)	15/16
Battery type	Lead-acid battery or lithium battery
PROTECTION FUNCTIONS	

DC switch; PV reverse-polarity protection; DC / AC surge protection; AC overvoltage and overcurrent protection; AC short-circuit protection; anti-islanding protection; residual-current monitoring; insulation resistance monitoring.

GENERAL PARAMETERS	
Human-machine interface (HMI)	Touch LCD & APP
Current transformer / electricity meter	Included / RS485
Communication interface	RS485,CAN,WIFI/Ethernet,USB
Ingress protection	IP65
Operating temperature range (°C)	-25-60℃
Relative humidity	0~100%(No condensation)
Max. operating altitude (m)	4000 m (derated operation at altitudes above 2000 m)
Cooling method	Air Cooling
Self-consumption (W)	<20W
Product dimensions (H x W x D, mm)	660x478x248mm
Product weight (kg)	43kg

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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°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)	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.

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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.

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

TOWER BATTERY



MODEL

HF PRO

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.

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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.

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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.

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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°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)	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.

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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.

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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.

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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.

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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.

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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

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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.

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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

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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.

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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

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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.

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 to grid (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

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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°C)	16KWh(0.5C , 25°C)
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°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)	460x245x1100mm	550x245x1180mm
Package dimensions (L x W x H, mm)	1180x540x420mm	630x420x1264mm
Net weight (kg)	118kg	147kg
Gross weight (kg)	135kg	168kg

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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

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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

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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.

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	

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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

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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

SOLAR INVERTERS | BATTERY STORAGE | ALL-IN-ONE SYSTEMS

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)	

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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.

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SPECIFICATIONS

Arktos

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°C)
Usable energy (90% DOD)	57.6KWh
Max. charge / discharge current	400A/400A
Operating voltage range	40.0Vdc ~ 58.4Vdc
Operating temperature	-10°C ~ +50°C
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)