SOLAR BATTERY
ENERGY STORAGE SYSTEM
SOLAR INVERTER



ZhongShan Zhuocai (BiLLION) Lighting Co., Ltd.

Focusing on professional LED lighting and energy storage systems.

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ZHONGSHAN ZHUOCAI (BiLLION) LIGHTING CO., LTD.

No.11 Hengwang Road, Cao Yi, Guzhen Town, Zhongshan City, Guangdong Province, China

COMPANY & CONTACT

Who we are

Zhuocai designs and supplies professional LED lighting and energy storage systems for distributors, retailers and project buyers worldwide.

From our base in Guzhen, Zhongshan - one of China's lighting manufacturing hubs - we support partners with product selection, documentation and shipment handling.

Product scope

Apollo hybrid inverters & stackable battery systems

Talos portable power stations

Solar street, flood & garden lighting

AC street, flood, garden & high bay luminaires

CE / CB / TUV / RoHS / SAA / FCC documentation and test reports available on request.

Your contact

Your contact

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Happy to send specifications, test reports or sample details whenever you need them.

WEBSITE

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APOLLO A SERIES

(INVERTER 6-12KW / EU AC 230V)

Module design for quick installation
Advanced inverter with pure sine wave
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life



APOLLO SERIES

INVERTER (6-12KW) WITH ENERGY STORAGE SYSTEM-A SERIES

Inverter

Model	SCAP-A-51.2-100	SCAP-A-51.2-200	SCAP-A-51.2-300	SCAP-A-51.2-400	SCAP-A-51.2-500	SCAP-A-51.2-600
Rated Power	6KW			12KW		
AC Rated Voltage	230VAC			230VAC		
Rated Frequency	50/60Hz			50/60Hz		
Efficiency	≥98%			≥98%		
Transfer Time	10ms			10ms		
Waveform	Pure sinusoidal wave			Pure sinusoidal wave		
Battery Overvoltage	58.4V			58.4V		
Battery Undervoltage Alarm	45V			45V		
Constant Voltage Charge	58.4V			58.4V		
Float Voltage	56V			56V		
Max Charging Current	100A			160A		
Communication Interface	USB (Inverter) / RS485 (BMS)					
Dimension	60*40.5*18cm			60*40.5*22cm		

AC Input

Nominal Voltage	230VAC	
Voltage Range	90-280VAC	
Rated Frequency	50/60Hz	
Frequency Range	40-70Hz	
Rated Charging Current	60A	
Maximum Charging Current	100A	160A

PV Input

Max Voltage	500V	500V
Optimum Voltage	300-400V	300-400V
Voltage Range	80V-500VDC	80V-500VDC
Max Power	27A/9000W	27A+27A/7500W*2

Battery

Rated Capacity	5120Wh (100Ah)	10240Wh (200Ah)	15360Wh (300Ah)	20480Wh (400Ah)	25600Wh (500Ah)	30720Wh (600Ah)
Nominal Voltage	51.2V			51.2V		
Discharge Voltage Range	43.2V-58.4V			43.2V-58.4V		
Standard Charing Current	50A			100A		
Max Charging Current	100A			200A		
Max Discharging Current	100A			200A		
Depth of Discharge	95%					
Communication Interface	CAN/RS485					
Cycle Life	≥6000, 25±2℃, 0.5C, EOL80%					
Working Temperature Range	Charge: 0℃-50℃; Discharge: -10℃-60℃					
Storage Temperature	-10℃-60℃					
Dimension	60*40.5*19.5cm					

APOLLO A SERIES

(INVERTER 5KW / US VERSION AC 110V)

Module design for quick installation
Advanced inverter with pure sine wave
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life



APOLLO SERIES

INVERTER (5KW) WITH ENERGY STORAGE SYSTEM-A SERIES

	Model	SCAP-A-51.2-100 (5KW+5.12KWh)	SCAP-A-51.2-200 (5KW+10.24KWh)	SCAP-A-51.2-300 (5KW+15.36KWh)	SCAP-A-51.2-400 (5KW+20.48KWh)
Inverter	Rated Power	5KW			
	AC Rated Voltage	110v/230V (Split phase)			
	Rated Frequency	50Hz			
	Efficiency	≥98%			
	Transfer Time	10ms			
	Waveform	Pure sinusoidal wave			
	Battery Overvoltage	58.4V			
	Battery Undervoltage Alarm	45V			
	Constant Voltage Charge	58.4V			
	Float Voltage	56V			
	Max Charging Current	100A			
	Communication Interface	RS232 (Inverter) / RS485 (BMS)			
	Dimension	60*40.5*18cm			
AC Input	Nominal Voltage	110VAC			
	Voltage Range	77-135VAC			
	Rated Frequency	50/60Hz			
	Frequency Range	40-70Hz			
	Rated Charging Current	30A			
	Maximum Charging Current	50A			
PV Input	Max Voltage	150V			
	Optimum Voltage	60-105V			
	Voltage Range	60-150V			
	Max Power	6400W			
Battery	Rated Capacity	5120Wh (100Ah)	10240Wh (200Ah)	15360Wh (300Ah)	20480Wh (400Ah)
	Nominal Voltage	51.2V			
	Discharge Voltage Range	43.2V-58.4V			
	Standard Charing Current	50A			
	Max Charging Current	100A			
	Max Discharging Current	100A			
	Depth of Discharge	95%			
	Communication Interface	CAN/RS485			
	Cycle Life	≥6000, 25±2℃, 0.5C, EOL80%			
	Working Temperature Range	Charge: 0℃ -50℃; Discharge: -10℃ -60℃			
	Storage Temperature	-10℃ -60℃			
	Dimension	60*40.5*19.5cm			

APOLLO B SERIES

Module design for quick installation
Advanced inverter with pure sine wave
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life



APOLLO SERIES

INVERTER WITH ENERGY STORAGE SYSTEM-B SERIES

Inverter

Model	SCAP-B-51.2-100	SCAP-B-51.2-200	SCAP-B-51.2-300	SCAP-B-51.2-400
Rated Power	6KW			
AC Rated Voltage	230VAC			
Rated Frequency	50/60Hz			
Efficiency	≥98%			
Transfer Time	10ms			
Waveform	Pure sinusoidal wave			
Battery Overvoltage	58.4V			
Battery Undervoltage Alarm	45V			
Constant Voltage Charge	58.4V			
Float Voltage	56V			
Max Charging Current	100A	120A		
Communication Interface	USB (Inverter) / RS485 (BMS)			
Dimension	60*18.3*36.5CM			

AC Input

Nominal Voltage	230VAC			
Voltage Range	90-280VAC			
Rated Frequency	50/60Hz			
Frequency Range	40-70Hz			
Rated Charging Current	60A			
Maximum Charging Current	100A	120A		

PV Input

Max Voltage	500V			
Optimum Voltage	300-400V			
Voltage Range	80V-500VDC			
Max Power	27A/9000W			

Battery

Rated Capacity	5120Wh(100Ah)	10240Wh(200Ah)	15360Wh(300Ah)	20480Wh(400Ah)
Nominal Voltage	51.2V			
Discharge Voltage Range	43.2V-58.4V			
Standard Charing Current	50A			
Max Charging Current	100A	120A		
Max Discharging Current	100A	120A		
Depth of Discharge	95%			
Communication Interface	CAN / RS485			
Cycle Life	≥6000, 25±2℃, 0.5C, EOL80%			
Working Temperature Range	Charge: 0℃-50℃; Discharge: -10℃-60℃			
Storage Temperature	-10℃-60℃			
Dimension	60*18.3*39CM			

APOLLO C SERIES

(EU VERSION AC 230V)

Super Cost-effective
Module design for quick installation
Multi-protection from self developed BMS
Brand new battery for 8000 times cycle life



APOLLO SERIES

INVERTER WITH ENERGY STORAGE SYSTEM-C SERIES

	Model	SCAP-C-51.2-300 (6KW)	SCAP-C-51.2-300 (12KW)	SCAP-C-51.2-600 (12KW)	SCAP-C-51.2-670 (12KW)
Inverter	Rated Power	6KW	12KW		
	AC Rated Voltage	230VAC			
	Rated Frequency	60Hz			
	Efficiency	≥98%			
	Transfer Time	10ms			
	Waveform	Pure sinusoidal wave			
	Battery Overvoltage	58.4V			
	Battery Undervoltage Alarm	45V			
	Constant Voltage Charge	58.4V			
	Float Voltage	56V			
	Max Charging Current	120A	160A	160A	160A
	Communication Interface	USB (Inverter)/RS485 (BMS)			
	Dimension	70*26*51CM			
AC Input	Nominal Voltage	230VAC			
	Voltage Range	90-280VAC			
	Rated Frequency	50/60Hz			
	Frequency Range	40-70Hz			
	Rated Charging Current	60A	60A	60A	60A
	Maximum Charging Current	120A	160A		
PV Input	Max Voltage	500V			
	Optimum Voltage	300-400V			
	Voltage Range	80V-500VDC			
	Max Power	27A/9000W	27A+27A/15000W		
Battery	Rated Capacity	15360Wh (300Ah)	15360Wh (300Ah)	30720Wh (600Ah)	30720Wh (600Ah)
	Nominal Voltage	51.2V			
	Discharge Voltage Range	43.2V-58.4V			
	Standard Charing Current	100A			
	Max Charging Current	200A			
	Max Discharging Current	200A			
	Depth of Discharge	95%			
	Communication Interface	CAN/RS485			
	Cycle Life	≥8000, 25±2℃, 0.5C, EOL80%			
	Working Temperature Range	Charge: 0℃-50℃; Discharge: -10℃-60℃			
	Storage Temperature	-10℃-60℃			
	Dimension	70*26*51CM			

APOLLO C SERIES

(US VERSION AC 110V)

Super Cost-effective
Module design for quick installation
Multi-protection from self developed BMS
Brand new battery for 8000 times cycle life



APOLLO SERIES

INVERTER WITH ENERGY STORAGE SYSTEM-C SERIES

	Model	SCAP-51.2-300(10KW+15KWh)	SCAP-51.2-600(10KW+30KWh)
Inverter	Rated Power	10KW	
	AC Rated Voltage	110V/230V (split phase)	
	Rated Frequency	50/60Hz	
	Efficiency	≥98%	
	Transfer Time	10ms	
	Waveform	Pure sinusoidal wave	
	Battery Overvoltage	58.4V	
	Battery Undervoltage Alarm	45V	
	Constant Voltage Charge	58.4V	
	Float Voltage	56V	
	Max Charging Current	160A	
	Communication Interface	RS232 (Inverter)/RS485 (BMS)	
	Dimension	70*26*51CM	
AC Input	Nominal Voltage	110VAC	
	Voltage Range	77-135VAC	
	Rated Frequency	50/60Hz	
	Frequency Range	40-70Hz	
	Rated Charging Current	50A	
	Maximum Charging Current	100A	
PV Input	Max Voltage	150V	
	Optimum Voltage	60-105V	
	Voltage Range	60-150V	
	Max Power	6400W	
Battery	Rated Capacity	15360Wh (300Ah)	30720Wh (600Ah)
	Nominal Voltage	51.2V	
	Discharge Voltage Range	43.2V-58.4V	
	Standard Charing Current	100A	
	Max Charging Current	200A	
	Max Discharging Current	200A	
	Depth of Discharge	95%	
	Communication Interface	CAN/RS485	
	Cycle Life	≥8000, 25±2℃, 0.5C, EOL80%	
	Working Temperature Range	Charge: 0℃ -50℃; Discharge: -10℃ -60℃	
	Storage Temperature	-10℃ -60℃	
	Dimension	70*26*51CM	

ARES SERIES

(INTEGRATED INVERTER & BATTERY)

Super cost-effective
Convenient Installation,Plug and Play
Moveable Power Station
Multi standard plug available



ARES SERIES

ALL IN ONE SOLAR SYSTEM

	Model	SCAS-5.5KW-5KWH	SCAS-5KW-7.5KWH/8.5KWH	SCAS-5.5KW-10KWH	SCAS-11KW-15KWH	SCAS-11KW-17KWH
Inverter	Rated Power	5KW	5KW	6KW	12KW	12KW
	AC Rated Voltage	230VAC	230VAC	230VAC	230VAC	230VAC
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Efficiency	≥98%	≥98%	≥98%	≥98%	≥98%
	Transfer Time	10ms	10ms	10ms	10ms	10ms
	Waveform	Pure sinusoidal wave				
	Battery Overvoltage	29.2V	29.2V	58.4V	58.4V	58.4V
	Battery Undervoltage Alarm	22.5V	22.5V	45V	45V	45V
	Constant Voltage Charge	29.2V	29.2V	58.4V	58.4V	58.4V
	Protection Voltage	21.6V	21.6V	43.2V	43.2V	43.2V
	Float Voltage	28V	28V	56V	56V	56V
	Max Charging Current	160A	160A	120A	160A	160A
	Communication Interface	USB (Inverter)/RS485 (BMS)				
AC Input	Nominal Voltage	230VAC	230VAC	230VAC	230VAC	230VAC
	Voltage Range	90-280VAC	90-280VAC	90-280VAC	90-280VAC	90-280VAC
	Rated Frequency	50Hz	50Hz	50Hz	50Hz	50Hz
	Frequency Range	40-70Hz	40-70Hz	40-70Hz	40-70Hz	40-70Hz
	Rated Charging Current	60A	60A	60A	60A	60A
	Maximum Charging Current	160A	160A	120A	160A	160A
PV Input	Max Voltage	500V	500V	500V	500V	500V
	Optimum Voltage	300V-400V	300V-400V	300V-400V	300V-400V	300V-400V
	Voltage Range	60V-500VDC	60V-500VDC	80V-500V	80V-500V	80V-500V
	Max Power	27A/9000W	27A/9000W	27A/9000W	27A+27A/15000W	27A+27A/15000W
Battery	Rated Capacity	5120Wh (200Ah)	7680Wh (300Ah)	10240Wh (200Ah)	15360Wh (300Ah)	17152Wh (335Ah)
	Nominal Voltage	25.6V	25.6V	51.2V	51.2V	51.2V
	Discharge Voltage Range	21.6-29.2V	21.6-29.2V	43.2V-58.4V	43.2V-58.4V	43.2V-58.4V
	Standard Charing Current	100A	100A	50A	100A	100A
	Max Charging Current	200A	200A	100A	200A	200A
	Max Discharging Current	200A	200A	100A	200A	200A
	Depth of Discharge	95%	95%	95%	95%	95%
	Communication Interface	CAN/RS485	CAN/RS485	CAN/RS485	CAN/RS485	CAN/RS485
	Cycle Life	≥6000 25℃ ±2℃, 0.5C, EOL80%			≥8000 25℃ ±2℃, 0.5C, EOL80%	
	Working Temperature Range	Charge: 0℃ -50℃; Discharge: -10℃ -60℃				
	Storage Temperature	-10℃ -60℃				
	Dimension	45.2*73*27CM	45*77*29CM	48*84*30CM	57*78*40CM	57*78*40CM

TALOS SERIES

(Portable Power Station)

- Brand-new Grade-A cells, 8000-cycle life, 90% DOD
- Pure sine-wave for stable and high-efficiency output
- UPS function for power-failure protection, 10ms switching time
- Color LCD screen for intelligent display, clear visibility of operating status
- Intelligent air-cooling design: intelligently adjusts heat dissipation according to load for low-noise operation
- Multi-protection BMS for enhanced safety and long service life
- Rich plug-and-play output ports: USB, Type-C, universal socket
- Multiple application scenarios, wall-mountable and portable
- Multiple charging modes: fast AC mains charging, PV solar charging
- Built-in Bluetooth and Wi-Fi for network access; APP intelligent management, Wi-Fi remote control for shutdown or output activation
- Stable continuous full-load operation; 2× instantaneous peak power with strong shock resistance



TALOS SERIES

ALL IN ONE SOLAR SYSTEM

	Model	SCTL-500W-1000Wh	SCTL-500W-1920Wh	SCTL-1200W-2000Wh
AC Output	Rated Power	500VA/500W	500VA/500W	1200VA/1200W
	AC Rated Voltage	230VAC	230VAC	230VAC
	Output Voltage	220~240VAC	220~240VAC	220~240VAC
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz
	Efficiency	≥92%	≥92%	≥94%
	Waveform	Standard Pure Sine Ware		
AC Input	Nominal Voltage	230VAC	230VAC	230VAC
	Voltage Range	90-280VAC	90-280VAC	90-280VAC
	Rated Frequency	50Hz	50Hz	50Hz
	Frequency Range	45-65Hz	45-65Hz	45-65Hz
	Maximum Charing Power	500W	500W	1200W
	Nominal Input Current	5A	5A	10A
	Battery Maximum Charging Current	160A	160A	190A
DC Output	DC5V 2PCS	DC5V 2PCS	DC5V 2PCS	DC5V 2PCS
	USB Output	USB 2PCS	USB 2PCS	USB 2PCS
		USB-C 1PCS	USB-C 1PCS	USB-C 1PCS
	Type-C Output	Type-C 1PCS	Type-C 1PCS	Type-C 1PCS
PV Input	Max Voltage	60V	60V	60V
	Voltage Range	12-60VDC	12-60VDC	12-60VDC
	Max Power	18A/500W	18A/500W	20A/600W
Battery	Rated Capacity	1005Wh(314Ah)	1920Wh(600Ah)	2010Wh(314Ah)
	Nominal Voltage	3.2V	3.2V	6.4V
	Discharge Voltage Range	2.5V-3.65V	2.5V-3.65V	5V-7.3V
	Standard Charing Current	80A	80A	100A
	Max Charging Current	160A	160A	190A
	Max Discharging Current	160A	160A	190A
	Depth of Discharge	95%	95%	95%
	Cycle Life	≥8000 25℃ ±2℃, 0.5C, EOL80%		
	Working Temperature Range	Charge: 0℃ -50℃; Discharge: -10℃ -60℃		
	Storage Temperature	-10℃ -60℃		
	Gross Weight	10kg	15kg	17.3kg
	Dimension	235*325*145mm	278*373*145mm	235*325*333mm

ATHENA A SERIES

Original Patent design
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life



ATHENA SERIES

POWER STORAGE SYSTEM-A SERIES



Battery

Model	SCAE-A-51.2-100	SCAE-A-51.2-200 (BMS 100A)	SCAE-A-51.2-200 (BMS 200A)	SCAE-A-25.6-100	SCAE-A-25.6-200
Rated Capacity	5120Wh (100Ah)	10240Wh (200Ah)	10240Wh (200Ah)	2560Wh (100Ah)	5120Wh (200Ah)
Nominal Voltage	51.2V			25.6V	25.6V
Discharge Voltage Range	43.2V-58.4V			21.6V-29.2V	
Standard Charing Current	50A	50A	100A	50A	50A
Max Charging Current	100A	100A	200A	100A	100A
Max Discharging Current	100A	100A	200A	100A	100A
Depth of Discharge	95%				
Communication Interface	CAN/RS485				
Cycle Life	≥6000, 25±2℃, 0.5C, EOL80%				
Working Temperature Range	Charge: 0℃ -50℃; Discharge: -10℃ -60℃				
Storage Temperature	-10℃ -60℃				
Dimension	40.5*18.5*58cm	43.5*28*63cm	43.5*28*63cm	36*19.5*42cm	40.5*18.5*58cm

ATHENA B SERIES

Original Patent design
Multi-protection from self developed BMS
Brand new battery for 8000 times cycle life



ATHENA SERIES

POWER STORAGE SYSTEM-B SERIES



Battery

Model	SCAE-B-51.2-300	SCAE-B-51.2-335
Rated Capacity	15360Wh(300Ah)	17152WH(335Ah)
Nominal Voltage	51.2V	
Discharge Voltage Range	43.2V-58.4V	
Standard Charing Current	100A	
Max Charging Current	200A	
Max Discharging Current	200A	
Depth of Discharge	95%	
Communication Interface	CAN/RS485	
Cycle Life	≥8000，25±2℃，0.5C，EOL80%	
Working Temperature Range	Charge：0℃ -50℃；Discharge：-10℃ -60℃	
Storage Temperature	-10℃ -60℃	
Dimension	48.5*26*77CM	

ATHENA C SERIES

Original Patent design
Multi-protection from self developed BMS
Brand new battery for 8000 times cycle life





Battery

Model	SCAE-C-51.2-600	SCAE-C-51.2-670
Rated Capacity	30720Wh(600Ah)	34304Wh(670Ah)
Nominal Voltage	51.2V	
Discharge Voltage Range	43.2V-58.4V	
Standard Charing Current	100A/150A	
Max Charging Current	200A/300A	
Max Discharging Current	200A/300A	
Depth of Discharge	95%	
Communication Interface	CAN/RS485	
Cycle Life	≥8000，25±2℃，0.5C，EOL80%	
Working Temperature Range	Charge：0℃-50℃；Discharge：-10℃-60℃	
Storage Temperature	-10℃-60℃	
Dimension	81*40*75.5CM	

ATHENA D SERIES

Original Patent design
Multi-protection from self developed BMS
Brand new battery for 8000 times cycle life



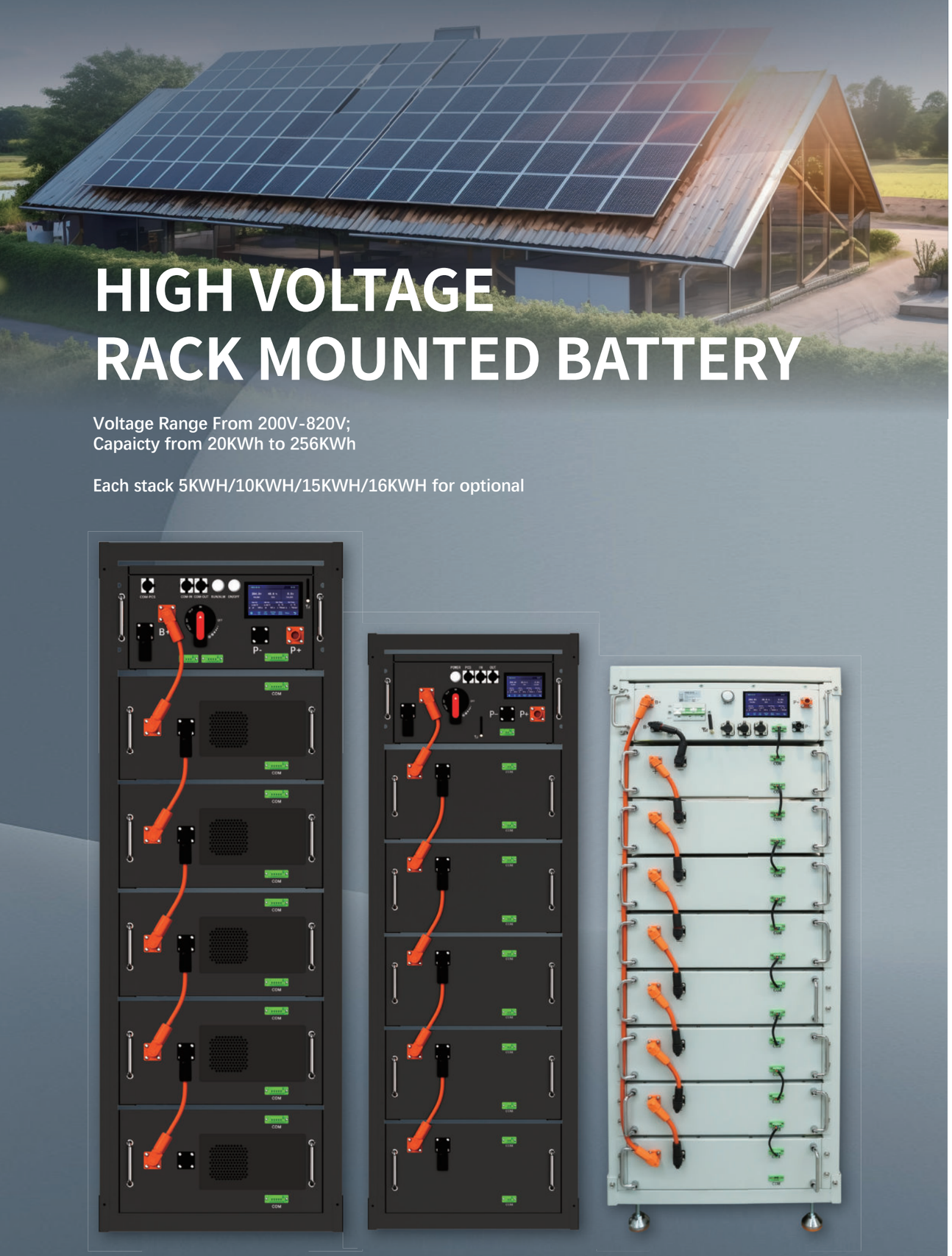
ATHENA SERIES

POWER STORAGE SYSTEM-D SERIES



Battery

Model	SCAE-D-51.2-314-IP65
Rated Capacity	16076Wh(314Ah)
Nominal Voltage	51.2V
Discharge Voltage Range	43.2V-58.4V
Standard Charing Current	100A
Max Charging Current	200A
Max Discharging Current	200A
Depth of Discharge	95%
Communication Interface	CAN/RS485
Cycle Life	≥8000, 25±2℃, 0.5C, EOL80%
Working Temperature Range	Charge: 0℃ -50℃; Discharge: -10℃ -60℃
Storage Temperature	-10℃ -60℃
Dimension	50*26*81.5CM



HIGH VOLTAGE RACK MOUNTED BATTERY

Voltage Range From 200V-820V;
Capaicty from 20KWh to 256KWh

Each stack 5KWH/10KWH/15KWH/16KWH for optional

RACK MOUNTED POWER STORAGE SYSTEM

HIGH VOLTAGE BATTERY



Battery

Model		SCRA-R-51.2-100(HV)			SCRA-R-51.2-200 (HV)			SCRA-R-51.2-314(Ah)		
Chemical battery		LiFePO4			LiFePO4			LiFePO4		
Module energy (KWh)		5KWh			10KWh			16.07KWh		
Module rated voltage (V)		51.2V			51.2V			51.2V		
Module capacity (Ah)		100Ah			200Ah			314Ah		
Number of battery modules in series (optional)		4 (Min)	8	16	4 (Min)	6	16	4 (Min)	8	16
System rated voltage (V)		204.8	409.6	819.2	204.8	307.2	819.2	204.8	409.6	819.2
System operating voltage (V)		172.8-233.6	345.6-467.2	691.2-934.4	172.8-233.6	259.2-350.4	691.2-934.4	172.8-204.8	332.8-467.2	691.2-934.4
System energy (KWh)		20.48	40.96	81.92	40.96	61.44	163.84	64.3	128.6	257.2
Charge/ discharge current (A)	Recommend	50			100			120		
	Max	75			120			150		
Working temperature (℃)		Charge:0~55/Discharge:-20~55								
Status Indicator		CAN2.0/RS485								
Humidity		5~85%RH								
Altitude		≤2000m								
Protection of Degree		IP20								
Installation location		Rack Mounted								
Storage temperature(℃)		-10℃ -60℃								
Recommended Depth of Discharge		95%								
Cycle life		25+2° C, 0.5C/0.5C, EOL80%≥6000						25+2° C, 0.5C/0.5C, EOL80%≥8000		
Certification		UN38.3 CE. IEC62619								
Dimensions Wx D x H(mm)		540*600*900	540*600*1500	540*600*2100	580*540*1370	580*540*1840	580*540*1840 *2set	505*740*1416	505*740*2112	505*740*1880 *2set

RACK MOUNTED BATTERY

Super Cost-effective
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life



RACK MOUNTED POWER STORAGE SYSTEM

POWER STORAGE SYSTEM RACK MOUNTED



Battery

Model	SCRA-R-25.6-100H	SCRA-R-25.6-100S	SCRA-R-25.6-200	SCRA-R-51.2-100	SCRA-R-51.2-200
Rated Capacity	2560Wh (100Ah)	2560Wh (100Ah)	5120Wh (200Ah)	5120Wh (100Ah)	10240Wh (200Ah)
Nominal Voltage	25.6V	25.6V	25.6V	51.2V	51.2V
Discharge Voltage Range	21.6V-29.2V			43.2V-58.4V	
Standard Charging Current	50A			50A	
Max Charging Current	100A			100A	
Max Discharging Current	100A			100A	
Depth of Discharge	95%			95%	
Communication Interface	/ NO	CAN/RS485			
Cycle Life	≥6000, 25±2℃, 0.5C, EOL80%				
Working Temperature Range	Charge: 0℃-50℃; Discharge: -10℃-60℃				
Storage Temperature	-10℃-60℃				
Dimension	56*48*22.5CM	56*48*22.5CM	56*48*22.5CM	49.2*45*18cm	56*48*22.5cm



OFF-GRID SOLAR INVERTER

Premium Version(Parallel Type)

Features:

- Continous working on 100% power
- Parallel version,easy operated by one communication cable,no need current-sharing module
- Max 12 pcs by parallel
- Touch screen more elegant
- P54, mainboard sealed with glue, moisture & pest proof, multiple protection

OFF-GRID SOLAR INVERTER

Premium Version(Parallel Type)

Model		INV-G1645	INV-G1618
Input	Input Format	L+N+PE	
	Rated Input Voltage	220/230/240 Configurable	
	Voltage range	90-280V	
	Frequency range	50Hz/60Hz (adaptive)	
Output	Output power rating	6000W	12000W
	Output Voltage	220/230/240VAC±5%	
	Output Frequency	50/60Hz±0.2%	
	Waveform	pure sine wave	
	Switching time (settable)	Computer equipment 10ms, household appliances 20ms	
	Peak Power	12000VA	24000VA
	Overload capacity	Battery mode: 10.5S 105%-150% 5S>150%	
	Peak efficiency (battery mode)	95%	
Battery	Rated Voltage	48Vdc	
	Constant voltage charging voltage (can be set)	56.4Vdc	
	Float charging voltage (can be set)	54Vdc	
Charger	PV charging mode	dual MPPT	
	PV Maximum input power	8000W	2×8000W
	MPPT Input Voltage Range	85~500Vdc	
	Optimum Vmp operating range	300~400Vdc	
	Maximum PV Input Voltage	500Vdc	
	Maximum PV input current	27A	27A+27A
	Maximum PV charging current	120A	210A
	Maximum mains charging current	120A	210A
	Maximum charging current	120A	210A
Display	LCD Interface	Display of operating modes/loads/inputs/outputs etc. is available.	
Interfaces	RS232	5PIN/Pitch2.54mm, Baud Rate 2400	
	Expansion slot communication interface	2×5PIN/Pitch2.54mm, lithium battery BMS communication card, WIFI card, dry contact card, etc. RS485	
	Parallel interface	With parallel function	
Environmental Parameters	Operating Temperature	-10~55℃	
	Operating ambient humidity	5%~95% (no condensation)	
	Storage temperature	-15~60℃	
	Altitude	Altitude should not exceed 1000m, above 2000m derating, up to 4000m, refer to IEC62040.	
	Noise	≤50db	
Physical Parameters	Depth x Width x Height(CM)	35*45*12	52.5*63*12.5
	Weight(for reference)KG	14.5	28.5



MPPT SOLAR INVERTER

Features:

- MPPT range: 80 V to 450 V, 500 Voc
- Compact and lightweight high-frequency inverter
- Pure sine wave AC output; solar and grid power can simultaneously supply the load
- Supports CAN/RS485 protocols for communication with BMS
- Can operate without a battery
- Wi-Fi remote monitoring (optional)
- Dual output is standard for models 5 kW and above

MPPT Solar Inverter

Category	Parameter	PV5000-24 S3.6	PV9000-24 S5.0	PV9000-48 S6.0	PV15000-48 S12
AC Input	Input Format	L+N+PE			
	Rated Input Voltage	208/220/230/240 Configurable			
	Voltage range	90 ~280 (APP/GEN mode); 170 ~264 (UPS mode)			
	Frequency range	50Hz/60Hz (adaptive)			
AC Output	Output power rating	3600W	5000W	6000W	12000W
	Output Voltage	208/220/230/240VAC±5%			
	Output Frequency	50/60Hz±0.2%			
	Waveform	pure sine wave			
	Switching time (settable)	Computer equipment 10ms, household appliances 20ms			
	Peak Power	7200VA	10000VA	12000VA	24000VA
	Overload capacity	1min@102%-110%load,10s@110%-200%load			
	Peak efficiency (battery mode)	92.7%@24VDC	93.5%@24VDC	94%@48VDC	
Battery	Rated Voltage	24Vdc		48Vdc	
	Max.Charging Current	100A	160A	120A	160A
	Max.Discharging Current	150A	190A	140A	220A
	Battery Type	Lithium /Lead-acid			
Charger(PV /AC)	PV charging mode	MPPT			
	PV Maximum input power	5000W	9000W	Using One MPPT: 27A/9000W Using Two MPPTs: 27A/Per MPPT, 15000W/Total	
	MPPT Input Voltage Range	40~450Vdc		60~450Vdc	
	Optimum Vmp operating range	300~400Vdc			
	Maximum PV Input Voltage	500Vdc			
	Maximum PV input current	18A	27A		27A+27A
	Maximum PV charging current	100A	160A	120A	160A
	Maximum mains charging current	100A	160A	120A	160A
	Maximum charging current	100A	160A	120A	160A
Display	LCD Interface	Display of operating modes/loads/inputs/outputs etc. is available.			
Interfaces	nterface	RS232 /RS485 /CAN			
	Monitoring	WiFi (External Wi-Fi)	WiFi (Internal integrated Wi-Fi)		
Environmental Parameters	Operating Temperature	-10~60℃			
	Operating ambient humidity	5%~95% (no condensation)			
	Storage temperature	-15~60℃			
	Altitude	4000m (Derating above 2000m)			
	Noise	≤50db			
Physical Parameters	Depth x Width x Height (CM)	420*284*94 (without bracket)	410*336*110 (without bracket)	410*336*110 (without bracket)	495*425*120 (without bracket)
	Net Weight (kg)	6.2	8.4	8.4	15

LiFePO4 BATTERY

Superior safety and longer cycle life
Higher energy density and Lighter weight
Super quick charge and low self-discharge



LiFePO4 Battery

Model	SCLFP-12.8V-30	SCLFP-12.8V-50	SCLFP-12.8V-100E	SCLFP-12.8V-100	SCLFP-12.8V-150
Nominal Voltage	12.8V	12.8V	12.8V	12.8V	12.8V
Rated Capacity	384Wh (30Ah)	640Wh (50Ah)	1280Wh (100Ah)	1280Wh (100Ah)	1920Wh (150Ah)
Cell Combination Structure	4S2P	4S1P	4S4P	4S1P	4S1P
Discharge Current	30A	50A	80A	100A	100A
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Discharge End Voltage	10V	10V	10V	10V	10V
Standard Charge Voltage	14.6V	14.6V	14.6V	14.6V	14.6V
Float Voltage	13.8V	13.8V	13.8V	13.8V	13.8V
Standard Charge Current	15A	25A	40A	50A	50A
Maximum Continuous Charge Current	30A	50A	80A	100A	100A
Standard Discharge Current	15A	25A	40A	50A	50A
Maximum Continuous Discharge Current	30A	50A	80A	100A	100A
Peak Current	33A, 10Sec	55A, 10Sec	110A, 10Sec	110A, 10Sec	110A, 10Sec
Charge Operating Temperature	0℃ -50℃	0℃ -50℃	0℃ -50℃	0℃ -50℃	0℃ -50℃
Discharge Operating Temperature	-20℃ ~60℃	-20℃ ~60℃	-20℃ ~60℃	-20℃ ~60℃	-20℃ ~60℃
Dimension	22.3*9.5*17.5cm	22.8*13.8*20.8cm	33*17.2*21.5cm	33*17.2*21.5cm	52.2*24*21.8cm

Model	SCLFP-12.8V-200	SCLFP-12.8V-300	SCLFP-25.6V-100	SCLFP-25.6V-200
Nominal Voltage	12.8V	12.8V	25.6V	25.6V
Rated Capacity	2560Wh (200Ah)	3840Wh (300Ah)	2560Wh(100Ah)	5120Wh(200Ah)
Cell Combination Structure	4S2P	4S1P	8S1P	8S1P
Discharge Current	100A	200A	100A	100A
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Discharge End Voltage	10V	10V	20V	20V
Standard Charge Voltage	14.6V	14.6V	29.2V	29.2V
Float Voltage	13.8V	13.8V	27.6V	27.6V
Standard Charge Current	50A	100A	50A	50A
Maximum Continuous Charge Current	100A	200A	100A	100A
Standard Discharge Current	50A	100A	50A	50A
Maximum Continuous Discharge Current	100A	200A	100A	100A
Peak Current	110A, 10Sec	220A, 10Sec	110A, 10Sec	110A, 10Sec
Charge Operating Temperature	0℃ -50℃	0℃ -50℃	0℃ -50℃	0℃ -50℃
Discharge Operating Temperature	-20℃ ~60℃	-20℃ ~60℃	-20℃ ~60℃	-20℃ ~60℃
Dimension	52.2*24*21.8cm	52.2*26.8*22cm	52.2*24*21.8cm	52.2*24*21.8cm

SOLAR HOME ENERGY STORAGE BATTERY

