



RITAR

Renewable Energy Solution For More Better Life



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RITAR INTERNATIONAL GROUP LIMITED

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Product Catalog

Residential Off-Grid Solar System

- SM Series(1-2KVA Hybrid)-1Phase
- SM Series(3-5KVA Hybrid)-1Phase
- SH Series(7-15KVA Hybrid)-1Phase
- SH Series(1.2-2.4KVA Hybrid)-1Phase

Commercial Hybrid Solar System

- SV1 Series(10-30KVA)-3Phases
- SV2/SV3 Series(35-550KVA)-3Phases
- SC series(35-550KVA)with LFP Battery



Company Profile

RITAR INTERNATIONAL GROUP LIMITED is a leading global energy solution provider. Established in May 2002, Ritar started with manufacturing environmentally friendly Sealed Lead Acid (SLA) batteries and solar power system.

Ritar introduces and develops advanced technology, and adopts the world's most advanced production equipments and testing measures to ensure long product life, high energy density, and environmental protection features such as cadmium-free, leading the domestic counterparts.

Over these years, the performance of the Ritar batteries has met and exceeded international standards, and a variety of technologies have been granted national and international patents. Ritar also has invested strongly in domestic and foreign institutions and scientific research institutions to overcome difficulties in battery technology.

Being a leading renewable energy solution provider, Ritar has successful diversified its portfolio in providing cutting edge solar power solution to a number of application including home solar power solutions and building solar farms and villages. Ritar smart solar generator for home lighting, mobile charging, fans etc. is also our close present for easy life. Moreover, one station solution is our best professional service for your solar energy requirement.

Nowadays, Ritar cooperates with partners in more than 200 countries and regions all over the world, such as Aisa, Middle East, Europe, America, Australia etc. Green energy lights the future, Ritar is coming!





Total Solution Summary

Stable energy supply is so necessary for the sustaining economic growth; In the areas where the utility grid is not sufficient but the sunshine is abundant, Ritar solar power solution is the good choice to improve life quality by green energy supply. We cover from the home power system, commercial and industry solution to the village solar solution.

Customer could select the correct solution basing on their real home requirement capacity and choose the options with their requirement increasing.

Commercial Solar Inverter-Portfolio3



Sv1 (10-30KVA) Sv2 (35-180KVA) Sv3(300-550KVA)



Residential Solar Inverter – Portfolio1 230Vac ,1 φ +N+PE



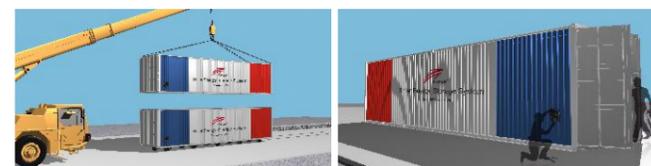
SM (1-2KVA) SM (3-5KVA) SH(7.5-15KVA)

SH-2.4K

All-In-One Solar Solution – Portfolio2



SMS-1270/1271 SMZ(0.5-1KVA) SMZ(5KVA)



T2 Middle Capacity Hybrid/Off-Grid Solution

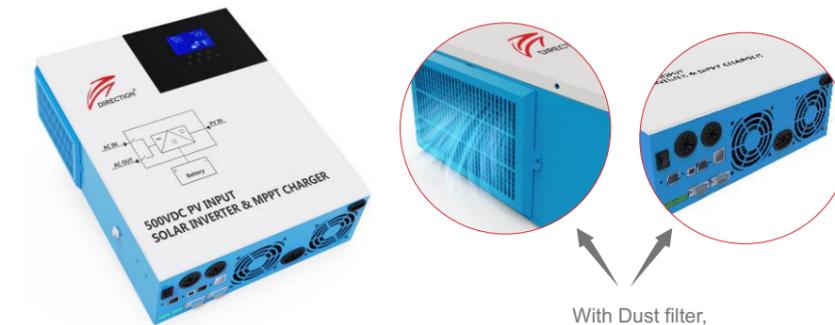
High efficiency integrated solar power system, SM series inverters equipped with MPPT solar charger could take full use of the solar PV modules and increase the daily power output.

The configurable LCD enables users to select different priority modes (solar power as first or utility (grid) source as first); SM's advanced battery management (ABS) ensures battery in good charge/discharge situation, so that to increase battery cycle-life, reduce the whole application cost.

500V PV input voltage,eliminates the cost of DC combiner box and cable , minimum installation engineering work and cost.

Key Features

- Inverter efficiency up to 93.2%, prolong battery back-up time and cycle life;
- Selectable power source as first priority (Solar or Utility or Unite);
- Adjustable charging current basing on different battery Ah capacity;
- 500V PVinput voltage, do not need combiner box;
- Friendly compatible with diesel oil generator.



With Dust filter, More high reliability

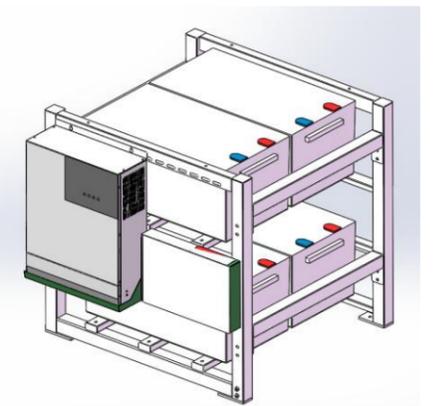
Application

- Fans,Lighting,TV,Pump,Cooling and other home applications

SM Series Off-Grid Solar System (1kva - 5kva)



Ritar Battery



- Deep Cycle Gel Series
- LFP Lithium battery



T1 Low Capacity Hybrid/Off-Grid Solution

To prolong a scalable energy back-up time, SH series are equipped with high efficiency inverter and able to connect with external batteries to provide continuous backup power during long-term usage. Built-in MPPT solar charger takes full use of solar panel (efficiency up to 98.2%).

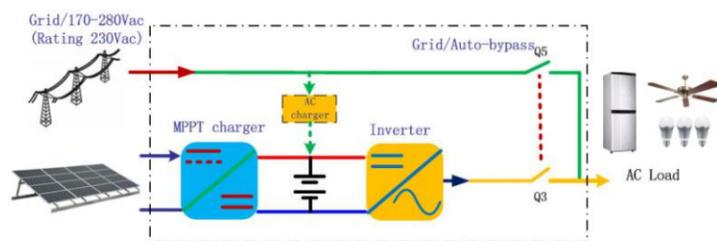
Built with double boost and buck voltage regular, it allows to provide 230Vac output without draining the battery energy, even when the grid/utility voltage is fluctuant in a wide range.

It is based on transformer-free design with high inrush protection, which enables SH to hold 3 times transient power (such as Microwave oven, pump and so on heavy duty load), suitable to the refrigerator, TV, LED lighting home application etc.

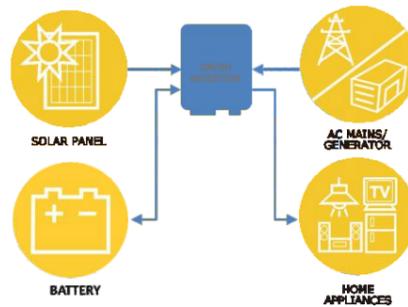
Key Features

- Compact size, lower weight, easy to move and install;
- Excellent microprocessor control guarantees high reliability;
- Boost and buck AVR for voltage stabilization (Optional);
- Auto restart while AC is recovering;
- Built-in Solar PV MPPT charging voltage, wide voltage range;
- Simulated sine wave;
- LCD information display.

System Topology Drawing



SH Series Off-Grid Solar System (1.2-2.4kva)



T3 High Capacity Hybrid Solar Inverter with High Voltage Design

- Built-in 500Vdc MPPT Solar charger, eliminate the DC combiner cost
- Multi-channel MPPT trackers(2-4), increases the solar panel eff. to 99.2%
- 100% EPS output capacity, support large capacity load conveniently
- Adjustable battery voltage range, flexible in battery (KWH) configuration
- Compatible with both Lithium battery and Lead acid(VRLA) battery
- High battery inverter efficiency (up to 97%), prolong the back-up time
- LCD touch screen, friendly function setting for different application purpose
- Remote management for diesel generator(DG) turn on/off, save the fuel
- Support Wifi/4G wireless global monitoring(option kit), global management
- IP 65 outdoor high reliable design, suitable to the harsh environment
- Provide 230Vac and 120Vac versions



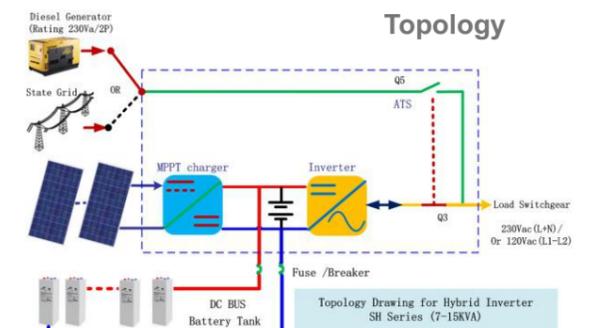
WiFi / 4G Global Monitoring



SH Series Hybrid Solar Inverter system (7.5KVA-15KVA)



Topology



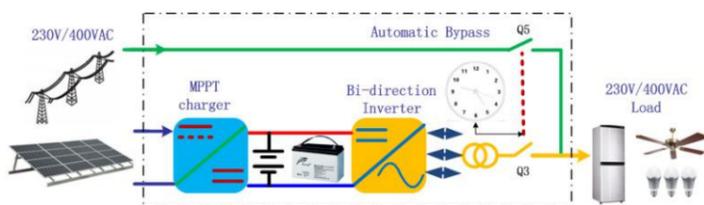


T4 Large Capacity Solar Power Station

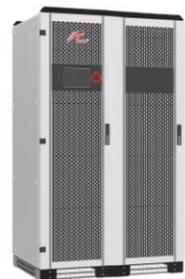
For large capacity power consumption, SV series could provide 30-550kVA solar power system for the areas such as standing-alone islands or where the utility power is not sufficient.

Key Features

- Scalable up to capacity 550kva by 50kva module; Output 400Vac;
- Built-in power switchgears, increase system reliability and maneuverability;
- High crest inverter design ensures withstanding heavy duty load, such as motor, pumper...;
- High efficiency (up to 98%) MPPT solar charging module is integrated inside;
- Diesel Gen is friendly compatible and automatically managed;
- 10' touch screen LCD display, Remote monitoring.



SV Series Solar Inverter (30-550kva, with PDU)



Solar Panel



SL-390W-36M

Ritar Battery



- Deep Cycle Gel Series
- Tubular Gel (OPzV) Series

Application

- Pumps, motors, cooling system
- Lighting system
- Heavy duty power application

NOTES: For detailed solutions, please contact the sales for technical supports.

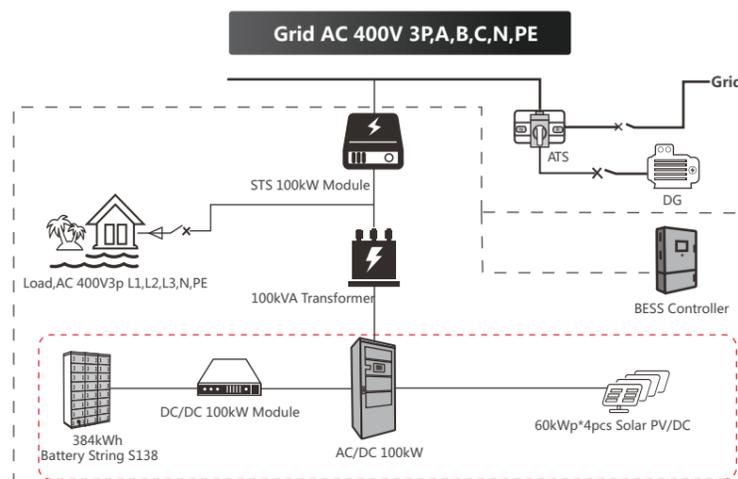
T5 Integrated Container Solution for Solar Power Station

For fast installation container solution, SC series provide 5ft 10ft,20ft,40ft. It includes solar charger, inverter, lithium battery Cooling, fire-extinguisher system and global monitoring system.

Key features

- 1: Fast installation, shorten the project time
- 2: Battery capacity scalable by modules
- 3: Integrated multi-MPPT chargers, suitable for various solar panel capacity
- 4: BMS and global real-time monitoring,high reliable

Model	Inverter	Bess	Solar Panel	Container
SC-M50	50KW.Max	64/128/192Kwh	60Kwp*1-2	5'ft
SC-M100	100KW.Max	192/256/384Kwh	60Kwp*1-4	10'ft
SC-M500	500KW.Max	138Kwh*n (n=1~8)	60Kwp*1-12	20-40'ft



SC Series M50/M100/M500 Container Solution



BESS Controller

Battery Rack





T0 Integrated Off-Grid Solar Solution

SMZ series are the whole solar power units, which integrate the 24V 100-200AH long cycle-life Gel battery, a SM inverter and necessary switchgears; They enable users to fast install the whole system without much engineering work; The compact size reduces the footprint and space in home.

The castor makes it more convenient in moving and relocating the equipment.

Key Features

- Integrated with 24V 100-200Ah long cycle-life Gel battery and necessary switchgears inside;
- Cover 0.5-1.0kva output capacity, 230Vac output;
- Wide Utility grid voltage is acceptable (90-280Vac Grid);
- High performance (efficiency up to 98%) MPPT solar charging module take the max. power from PV module;
- High crest inverter design ensures withstanding heavy duty load, such as motor, pumper...;
- Compact size with castor, easy to ship and relocate, reduce the whole installation cost.

Standard Solution			
Solution/Description	Item	Model	QTY
T0-1 (0.5KVA/ 2.4kwh)	Inverter	SM-0.5K-24V	1PCS
	GEL Battery	DG 12-100AH	2PCS
	PV Panel	SL-330W-30P	1PCS
	Cable Set	CAB-T1	1PCS
T0-2 (1KVA/ 4.8kwh)	Inverter	SM-1K-24V	1PCS
	GEL Battery	DG 12-200AH	2PCS
	PV Panel	SL-330W-30P	2PCS
	Cable Set	CAB-T2	1PCS

Application

- Fans,Lighting,TV,Cooling and so on home applications

SMZ Series (with battery and PDU installed)



Solar Panel



- SL-330W-30P

Ritar Battery



- Deep Cycle Gel Series

T0 Solar Home Power System DC Solution Smart Solar Generator--SHS-500



SHS-500 is a 500Wh lithium Portable Power Station. It is one of the lightest and most portable rechargeable lithium battery generators on the market.

Lithium battery power: 500Wh battery capacity, 500W Rated Power and 1000W Surge Power from the pure-sine wave AC port.

Portable and lightweight: Only 14 lbs with an easy-carry handle. All-in-one portable power station: includes three USB ports, AC outlet, and 12V car output. SHS-500 portable power station provides stable power to mainstream electronics and small appliances, from TVs, projectors to small blenders, a pellet smoker, etc.

Recharge the power station three ways: AC outlet, DC carport or via optional solar panels.

Unlimited green power solution: Efficient solar charging with MPPT built-in makes it a solar generator for outdoor recreations. The LCD screen with charge/discharge data and battery life status.

Solar panel (optional)
Model:SL-100W-SHS





T0 Solar Home Power System DC Solution



Total Weight: 1.4kg

Portable Solar Home System(SHS) Model:SHS-1271W

Features:

- 6V 1.6Ah Rechargeable Lead-Acid Battery
- FM/AM Radio (FM88-108MHz, AM54-160*10KHz)
- USB 5.0V DC Output Socket *1piece
- Torch light*1piece
- Lantern light*1piece
- Dimension: 290*182*118mm/ G.W 1.4kg
- Carton Box: 600*500*400mm/18 pieces

Solar System+FM Radio+Music Player+ Powerful Torch=All Integrated Solution

 **POWERFUL TORCH**
Superbright LEDs

 **TASK LIGHT**
Portable using anywhere

 **PORTABLE CHARGER**
Charge your phones

 **FM RADIO&MP3**
Enjoy music and news



Standard accessories in package:

- 1:AC charger*1pcs,12V 1.0A
- 2: Solar panel *1pcs, 5W, 18V

Additional Optional Kits

- 1: DC 12V lamp*2pieces, 7W with 3 meters cable (Model:LED-7W-12V)
- 2: Mobile charge USB cable

SH datasheet

Model	SH-2K-24V	SH-7.5K-48V	SH-10K-240V	SH-15K-240V
Rating Power Capacity	2.4KVA/1.44KW	7.5KVA/6KW	10KVA/8KW	15KVA/12KW
MPPT Solar Charger	600Wp	6KWp	10KWp	16KWp
Output voltag	230Vac/50Hz	230Vac/50Hz Or 120/240Vac 50Hz/60Hz(LA)		
MPPT solar charger				
Input Solar Power Max.	800Wp Max.	8KWp Max.	14KWp Max.	18KWp Max.
PV Open circuit voltage Max. (Voc)	150 Vdc	500Vdc	500Vdc	500Vdc
MPPT tracking range (Vmppt)	24-145Vdc	60-450Vdc	125-450Vdc	125-450Vdc
Initiate start voltage (Vm)	<20V	<50V	<125V	<125V
Rating MPPT charger Current	24V 20 A	15A* 2	15A* 4	15A* 4
Utility Bypass input (AC)				
Rating Bypass input Voltage (V _{in})	230VAC			
Acceptable Voltage range	90 - 280 VAC(Wide Range)			
AC charger Current	10A ~ 50A (Selectable)			
Frequency range	50 or 60 Hz (Auto-sensing)			
External Battery and Three phase charging management				
Rating Battery Voltage (VDC)	24V _{dc}	48V _{dc}	240V _{dc}	
MPPT charging Voltage	28.8V	57.6V	288V	
Constant Voltage charging Voltage (V _{CVS})	28.8V	57.6V	288V	
Float charging Voltage (V _{float})	27.6V±2%	55.2V±2%	276V±2%	
Low Battery Alarm Voltage	21.6V±2%	43.2V±2%	216V±2%	
Shutdown Voltage	20.0V±2%	40.0V±2%	200V±2%	
Over Charge Protection	30.0V±2%	60.0V±2%	300V±2%	
Maxi. Battery Charge Current	MPPT Solar charger + AC charger			
AC Output				
AC output Capacity (Batt. Mode)	2.4KVA/1.44KW	7.5KVA/6KW	10KVA/8KW	15KVA/12KW
AC Voltage (Batt. Mode)	230Vac/50Hz	230Vac/50Hz Or 120/240Vac 50Hz/60Hz(LA)		
AC Output Wave (Batt. Mode)	Simulated	Pure Sine Wave		
Frequency Range (Batt. Mode)	50 Hz ±1 Hz or 60Hz±1 Hz			
Transfer Time	10ms typical			
PROTECTION				
Full Protection	Battery Deep discharge/Overcharge Protection; AC Inverter Overload, AC short circuit and Over temperature protection; Solar Panel Reverse pole connection protection.			
INDICATORS				
Display	LCD			
PHYSICAL				
Dimension D*W*H (mm)	300*360*88	550*515*200	530*660*200	530*660*200
Net Weight (kg)	7.7	30	36	37
General Information				
Certification	CE			
Humidity	0 to 90% Relative Humidity (Non-condensing)			
Operation Temperature	0°C—40°C			
Storage Temperature	-15°C—50°C			

**Product specifications are subject to change without further notice.

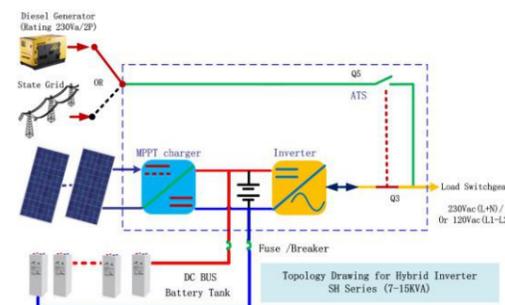
SM datasheet

Model	SM-3K-24V	SM-5K-48V	SM-5K-48V-X
Rating Power	3KVA/3.0KW	5KVA/5.0KW	5KVA/5.0KW
System Output			
AC Input Voltage	230V _{ac}		
Selectable Range	170-280V _{ac} (For UPS mode)90-280V _{ac} (For home application mode)		
Frequency range	50Hz/60Hz (Auto sensing)		
MPPT Solar Charger	600Wp	3300Wp	5000Wp
Normal battery Voltage	24V _{dc}	48V _{dc}	48V _{dc}
Max. Charge current	60A	80A	80A
Solar Charger (MPPT)	99% max.		
Standby Power Consumption	2W	5W	5W
AC(Utility) charger			
Normal battery Voltage	24V _{dc}	48V _{dc}	
Float charge Voltage	27V _{dc}	54V _{dc}	
Overcharge protect	31V _{dc}	62V _{dc}	
Max. charge Current Configurable in LCD	0A/2A/10A/20A	0A/2A/10A/25A	0A/2A/10A/20A/30A/60A
Notes	Notes1: SM-3K unit Solar charger and AC charger could not work at the same time, the total battery charger current 60A. Notes1: SM-5K and SM-5K-X units Solar charger and AC charger could work at the same time, the total battery charger current 120A.		
Output			
AC Voltage Regulation (Battery Mode)	230VAC(±5%)		
Output wave	Pure sine wave		
Transfer time	10ms(For personal Computers); 20ms(For all Home application)		
Surge Power	6KVA	10KVA	
Inverter efficiency	91.2%	93.2%	
Power Consumption	<15W (In no load situation)	<20W (In no load situation)	
Physical			
Dimension (L*W*H)mm	268*342*94	394*436*118	322*426*126
Package size	300*400*120	440*500*170	400*500*170
Net Weight	5.7kg	10.3kg	11kg
Gross weight	7.5kg	12.9kg	14.5kg
General information			
Certification	CE		
Operating Temperature Range	0-55°C		
Storage temperature	-15°C-60°C		
Boost CC CV in battery charging Setting	Battery Type	TypeBoost CC, CV	Float
		24/48	24/48
	Flooded	29.2/58.4	27.0/54.0
	AGM / Gel	28.2/56.4	27.0/54.0

Appendix 2

SV datasheet

Model	SV2-60P-35K	SV2-60P-60K	SV2-120P-120K	SV2-180P-120K	SV2-180P-180K	SV2-240P-180K	SV3-600P-300K	SV3-720P-550K
System Output Parameter	Isolation Transformer Included							
AC Output Capacity (kVA/kW)	35KVA/30KW	60KVA/50KW	120KVA/100KW	180KVA/150kw		300KVA/250KW	550KVA/500KW	
Output parameter	230V(1P+N) /400 (3P+N) with 1% precision and 50Hz(default)/60Hz, with 0.5% precision							
Efficiency of Inverter System	95.6%	95.8%	96.1%	96.4%		97.1%		
ATS kit for AC bypass (Hybrid)	YES, Have ATS as Default , for Grid/Diesel Generator connection							
Battery BUS Rated Voltage	480Vdc default(Adjustable from 384V to 576V)		480Vdc default(Adjustable from 384V to 576V)			720Vdc default		
Switchgear (PDU) Installed	Yes, Have necessary Circuit breaker (CB) for PV input, AC bypass input Battery, and AC output							
Overload Performance	<105%, long term; <110%, 10 minutes; <120%, 1 minutes							
IP/RMS	3:1 Ratio , Support instantaneous rush load (300%)							
THD and Un-balance capacity	THD<3% with 100% load; Support 100% un-balance load between phases							
PV/Solar Input Parameter								
PV Input Voltage, Rated (Vmppt)	600-850Vdc (Suggest 30-36V* 20 pieces in series connection) , Buck						600-850Vdc ,Boost	
PV Input Voltage Range (Voc)	600-900Vdc							
PV MPPT Chansels QTY	MPPT X 1	MPPT X 2	MPPT X 3	MPPT X 4	MPPT X 10	MPPT X 12		
PV Panel Rating Connected (Wp)	60KWP	120KWP	180KWP	300KWP	600KWP	720KWP		
Grid /Diesel Generator Input (option)								
Grid/Gen-set AC Input Voltage Rated	230V/400Vac (3P+N+PE), 50Hz(default)/60Hz							
Grid/Gen-set AC Input Voltage Range	170-265V/292-460Vac (3P+N+PE), 45-65Hz							
Efficiency of Grid -ATS (if has ATS option)	ATS of Grid/Diesel Generator is optional ; Eff. 99.0%							
Battery Connection Parameter								
Battery BUS Rated Voltage	480Vdc (2V X240cells) default		480Vdc (2V X240cells) default			720Vdc (2V X 360 cells) default		
Battery Voltage Adjustment Range (Vbat)	384-576Vdc		400-576Vdc			576-864Vdc		
Mechanical Feature								
Dimension W*D*H (mm)	800*800*1900mm (W*D*H)	1200*800*2060mm (W*D*H)	1200*800*2060mm (W*D*H)	2400*1000*2060mm	2800*1050*2060mm			
Weight (kg)	305kg	387kg	594kg	650kg	760kg	845kg	1630kg	2371kg
Noise (dB)	<68dB							
Network Monitoring								
HMI and Indicator	7 Inch Touch Screen(LCD) ,and LED Indicator							
Communication Socket and Protocol	Rs485, CAN, LAN, REPO and CAN, Modbus, TCP, Modbus RTU							
Application Environment								
IP Level	IP20							
Power dispatch (Cooling)	Forced Air Cooling (Smart Fan Speed Control)							
Operation Temperature/ Relative Humidity	25 °C to 55°C / 0-95% RH, No Condensation (from 45-55°C, de-rating 15% capacity per 5°C)							
Storage Temperature / Relative Humidity	-25°C to 55°C/0-95% RH ; (Exclude battery)							
Altitude (meters)	2000meters; (for 2000-4000 meters, de-rating 4% per 100 meters)							



Appendix 3

SMZ datasheet

Model	SMZ-0.5K-24V	SMZ-1.0K-24V
Capacity	0.5KVA/0.5KW	1.0KVA/0.8KW
Grid Input and Solar input		
Normal battery Voltage	24V _{dc}	
Battery Cabinet Size	12V 100AH *2 PCS Space	12V 200AH *2 PCS Space
System		
AC Output Voltage	230Vac(±5%,user selectable)	
Output wave	Pure sine wave	
Transfer time	N/A	10ms
Surge Power	1KVA	2KVA
Inverter Efficiency	82%	85%
Standby Power Consumption	8W (In no load situation)	15W (In no load situation)
Battery		
Maximum PV Array Power	24V _{dc}	
Float charge Voltage	27V _{dc}	
Overcharge protect	31V _{dc}	
Battery & MPPT charger &AC(Utility) charger		
Maximum PV Array Power	400Wp	660Wp
MPPT tracking Range	30-100V _{dc}	30-100V _{dc}
Max. PV Array Open Circuit Voltage	95V _{dc}	95V _{dc}
MPPT solar charge current	24V 15A MPPT	24V 20A MPPT
Max. Charge current(PV+AC)	15A	20A
Physical		
Dimension (L*W*H)	740*254*233mm	577*563*450mm
Package size	820*500*300mm	620*600*500mm
Net Weight	24.5kg	35.3kg
Gross weight	27.1kg	39.0Kg
General information		
Certification	CE	
Operating Temperature Range	0-50°C	
Storage temperature	-15°C-60°C	

SC datasheet

Model	SC-M50	SC-M100	SC-M500
Battery Capacity(BESS)	64/128/192KWh	128/256/384KWh	138kwh*n-10
AC Output Capacity (kVA/kW)	60KVA/50KW	120KVA/100KW	550KA/500KW
Output parameter	230V/400Vac @50/60Hz		
Efficiency of Inverter System	up to 96%		
ATS kit for AC bypass (Hybrid)	Yes, has the ATS as default, for grid/diesel gen connect		
Switchgear (PDU) Installed	Yes, have the necessary circuit breakers and PDU		
PV/Solar Input Parameter			
PV Input Voltage, Rated (Vmppt)	250-850Vdc(suggest 20pcs 30-36V in series)		
PV Input Voltage Range (Voc)	200-900Vdc		
PV MPPT Chansels QTY	n(n=0,1,2)	n,n=(0-4)	n,n=(0-12)
PV Panel Rating Connected (Wp)	60KWp*n		
Grid /Diesel Generator Input (option)			
Grid/Gen-set AC Input Voltage Rated	230V/400Vac (3P+N+PE), 50Hz(default)/60Hz		
Grid/Gen-set AC Input Voltage Range	170-265V/292-460Vac (3P+N+PE), 45-65Hz		
Efficiency of Grid	Eff. 97.0-98.0%		
Battery Connection Parameter			
Battery BUS Rated Voltage	358.4v	358.4V	756V
Battery Capacity (BESS)	64/128/192KWh	128/256/384KWh	138kwh*n
Fire Extinguisher System	Gas aerosol fire extinguishing system(GAFES), UL certificated		
Mechanical Feature			
Dimension W*D*H (mm) / Container size	2250*1300*2591	2910*2438*2591	5896*2438*2591
	5'ft container	10'ft container	20-40'ft container
Weight (kg)	1670	9610	<10Ton
Noise (dB)	<54dB	<65dB	<68dB
Network Monitoring			
HMI and Indicator	7 Inch Touch Screen(LCD) ,and LED Indicator		
Communication Socket and Protocol	Rs485, CAN, LAN, REPO and CAN, Modbus, TCP, Modbus RTU		
Application Environment			
IP Level	Ip54		
Power dispatch (Cooling)	Wall mounted Air Condition		
Altitude (meters)	2000meters; (for 2000-4000 meters, de-rating 4% per 100 meters)		
Operation Temperature/ Relative Humidity	25 °C to 55°C / 0-95% RH, No Condensation (from 45-55°C, de-rating 15% capacity per 5°C)		
Storage Temperature / Relative Humidity	-25°C to 55°C/0-95% RH ; (Exclude battery)		

