WORLD OF SUN & WIND POWER
(WORLD OF SUNPOWER)

JHB: 081 339 5681 CPT: 065 1476680 DBN: 062 163 1618
ROSEBANK: 078 278 4007

We have got our own engineering team
Please contact us for installation

1.We do site viewing
2.Design your Solar system
3.Installation
4.Inpection
5.Commisioning

Or if you have your own installation team we can do inspecting commissioning and provide support

500KW SYSTEM

1X MEGAREVO 500KW H/V INVERTER
98X GREENRICH 5.1KWH H/V BATTERY
7X GREENRICH HVCB03 CONTROL BOX
1X GREENRICH BAU
909X 550W JA MONO SOLAR PANEL
13X GREENRICH BATTERY STAND

R5,535,746
INC VAT

WWW.WORLDOFSUNANDWINDPOWER.COM

Product features:

Safe & reliable

- Built-in isolation transformer for high load adaptability;
- Perfect protection function for inverter and battery;
- Redundancy design for important functions;

Abundant configuration

- Integrated design, easy to integrate;
- Support simultaneous access of load,battery,power grid , diesel and PV;
- Built-in maintenance bypass switch, improve system availability;

Intelligent & efficient

- Support battery capacity and discharge time prediction;
- Smooth switching between on and off grid, uninterrupted supply of load;
- Operate with EMS to monitor system status in real time;

Friendly & flexible

- Various working modes can be set flexibly;
- PV controller modular design, easy to expand;

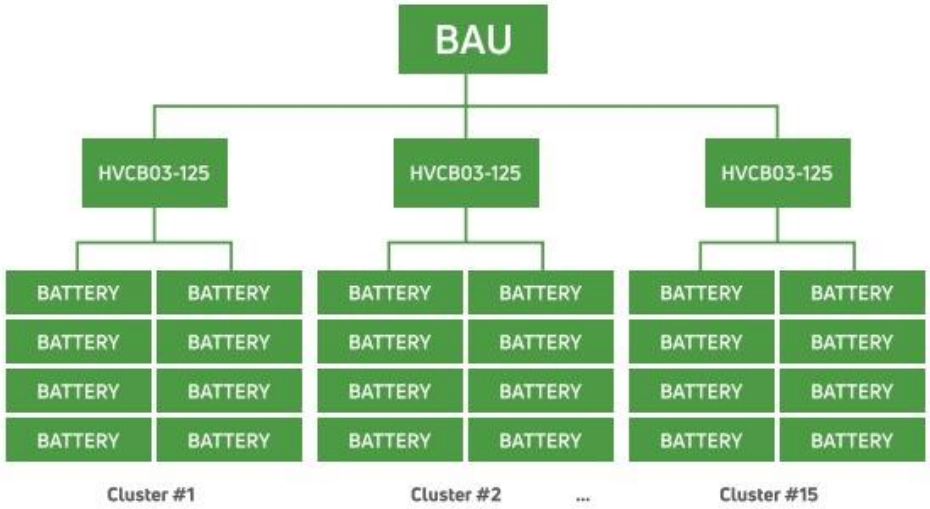
Technical specification	MPS0030	MPS0050	MPS0100	MPS0150	MPS0250	MPS0500
AC(on-grid)						
Max output power(kVA)	33	55	110	165	275	550
Rated power(kW)	30	50	100	150	250	500
Rated voltage(V)	400					
Rated current (A)	43	72	144	216	361	722
Voltage range(V)	320~460					
Rated frequency (Hz)	50/60					
Frequency range(Hz)	45~55/55~65					
THDi	<3%					
Power factor	1lagging~1leading					
AC connection	3W+N+PE					
Transformer ratio	100/400	200/400	270/400	270/400	270/400	315/400
AC(Off Grid)						
Max output power(kVA)	33	55	110	165	275	550
Rated power(kW)	30	50	100	150	250	500
Rated voltage(V)	400					
Rated current(A)	43	72	144	216	361	722
THDu	⩽1% linear; or⩽5% nonlinear					
Rated frequency(Hz)	50/60					
Overload capacity	110% long-term					
Photovoltaic input						
Max.PV input voltage(V)	1,000					
Max.PV power(kW)	60/120	60/120	120/180/240	120/180/240	300/360	600/660/720
MPPT voltage range(V)	250-850					
MPPT voltage range@full load (V)	450-850					
Battery						
Battery voltage range(V)	250~850	320~850	420~850	420~850	420~850	500~850
Max. charging power(kW)	60/120	60/120	120/180/240	120/180/240	300/360	600/660/720
General data						
Dimension W*D*H(mm)	800*800*1,900	800*800*1,900	1,200*800*2,050	1,200*800*2,050	(600*720*2,050)*1+ 1,200*800*2,050	(600*720*2,050)*2+ 1,600*1050*2,050
Weight(kg)	620/650	720/750	1,120/1,150/1,180	1,250/1,280/1,310	1,980/2,010	3,265/3,295/3,325
Operation temperature	-30℃ ~ 55℃					
Relative humidity	0 ~95% non-condensing					
Ingress protection	IP20					
Noise emission(dB)	<70dB					
Altitude	5,000m(>3,000 Derating)					
Cooling	Air Cooling					
Display and communication						
Display	LCD touch-screen					
BMS communication	RS485, CAN					
EMS communication	RS485, TCP/IP					
Certificates	EN62109-1/-2, EN62477-1, EN61000-6-2, EN61000-6-4, South Africa NRS097-2-1:2017, Pakistan & India IEC61727, IEC62116,IEC 61683					

HVB-IS001

With 1.5C technology, the Greenrich battery ensures more power when you need it.

1.5C
Discharging Rate

204.8~768V
Voltage



ELECTRICAL PARAMETERS

Upper Limite Charging Voltage (cell)	3.6V
Discharge Cut-off Voltage	2.9V
Standard/max Charging Current	2.9V
Standard/max Discharging Current	50A/125A (limited by the breaker)
Communication Type	RS485, CAN, TCP, IP, LAN

OPERATION CONDITION

Operating Temperature	Charging:0~55°C; Discharging:-20~60°C; Storage:-10~45°C
Humidity	5~95% RH

MODEL	NOMINAL VOLTAGE	NOMINAL CAPACITY
IS001-004	204.8V	96.6Ah | 19.78kWh
IS001-005	256.0V	96.6Ah | 24.73kWh
IS001-006	307.2V	96.6Ah | 29.67kWh
IS001-007	358.4V	96.6Ah | 34.62kWh
IS001-008	409.6V	96.6Ah | 39.57kWh
IS001-009	460.8V	96.6Ah | 44.51kWh
IS001-010	512.0V	96.6Ah | 49.46kWh
IS001-011	563.2V	96.6Ah | 54.41kWh
IS001-012	614.4V	96.6Ah | 59.35kWh
IS001-013	665.6V	96.6Ah | 64.30kWh
IS001-014	716.8V	96.6Ah | 69.24kWh
IS001-015	768.0V	96.6Ah | 74.19kWh

COMPATIBLE WITH

- Greenrich
- Solis
- Goodway
- Sinexcel
- Megarevo
- Deye
- Sunsynk
- Atess
- Sunways

COMMERCIAL & INDUSTRIAL

High Voltage Battery System

HIGH RATE:
- Dynamic cylindrical cells, charged by 1C and discharged by 1.5C

LIFE CYCLE:
- 4000 cycles life
- 10 years warranty, no single point of failure.

SAFETY:
- Lithium iron phosphate (LFP)
- Passed the nail test, No fire hazard
- Three protections : relays, breaker and fuse

MODULAR:
- Modular design, not be oversized for the storage system
- Easily expandable, the batteries can be stacked inseries to support different voltage requirements

INTELLIGENCE
- High current detection accuracy, two detection loops used
- Compatible with 150V-900Vdc system
- Master and slave design, more stable and safer operation to system maintenance
- Reliable communication and Cloud display of data
- Support most PCS/PWG in the market, like Sinexcel, Megarevo, Goodwe and so on
- Support remote monitoring and upgrading through WiFi or 4G mode

HVCB03 - CONTROLLER BOX

HVCB03 - 125 HIGH VOLTAGE CONTROLLER BOX

Operating Voltage	150V-900Vdc
Nominal Current	100A@continuous, 125A Max
Working Temperature	-40°C-85°C
Communication Interface	2 ways CAN@3ways RJ45 Physical interface
Analog Quantity Signal	5 ways Dry contact @2ways output, 3ways input
Temperature Detection	2ways @NTC10Q B3950
Dimension	478 x 434x133mm
Weight	11.5kg

BATTERY PACK

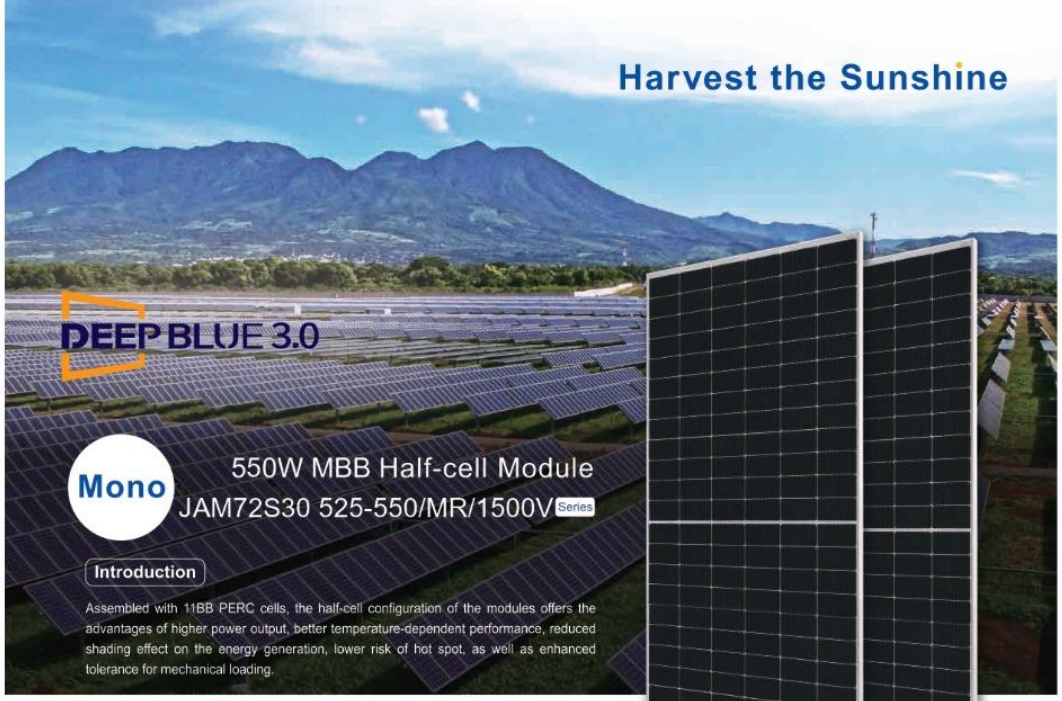
Cell Type	LiFeP04, Cylindrical cells
Configuration	16S21P
Nominal Voltage	51.2V
Nominal Capacity Working	96600mAh/4946Wh
Voltage Range	46.4V~56.8V
Charge Temperature	0~55°C
Discharge Temperature	-20~60°C
Dimension	438 x 536 x 221mm
Weight	About 50kg
Communication Type	CAN

BATTERY ARRAY UNIT (BAU)

Working Voltage	24Vdc
Working Temperature Range	-30°C-75°C
Working Humidity	5%-95% RH
RS485 communication	5 ways @Modbus
Ethernet communication	3 ways @TCP/IP
CAN Communication	2 ways CAN 2.0B
Dry Contact	9 ways @5 ways output, 4 ways input
Temperature Detection Range	-40°C-120°C
Temperature Detection Accuracy	+1°C
Operating power consumption	<3.8W
Sleep power consumption	<0.03mW
SD card storage	Standard configuration 64G TF card
PCS communication	485 or CAN
EMS communication	TCP/IP
Dimension	348mm x 150mm x 48 mm

BATTERY PACK

BATTERY ARRAY UNIT



- Higher output power
- Lower LCOE
- Less shading and lower resistive loss
- Better mechanical loading tolerance

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty

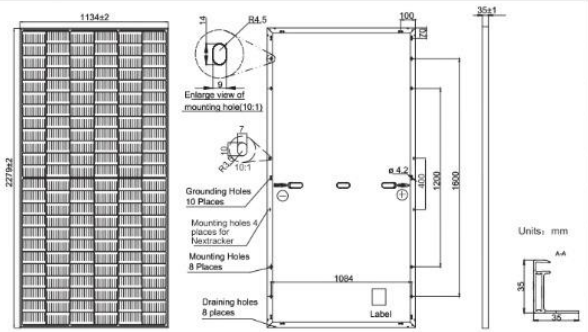
Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems

JA SOLAR

www.jasolar.com

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	28.6kg±3%
Dimensions	2279±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	Genuine MC4-EVO2 QC 4.10-35/45
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1300mm(+)/1300mm(-)
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S30 -525/MR/1500V	JAM72S30 -530/MR/1500V	JAM72S30 -535/MR/1500V	JAM72S30 -540/MR/1500V	JAM72S30 -545/MR/1500V	JAM72S30 -550/MR/1500V
Rated Maximum Power(Pmax) [W]	525	530	535	540	545	550
Open Circuit Voltage(Voc) [V]	49.15	49.30	49.45	49.60	49.75	49.90
Maximum Power Voltage(Vmp) [V]	41.15	41.31	41.47	41.64	41.80	41.96
Short Circuit Current(Isc) [A]	13.65	13.72	13.79	13.86	13.93	14.00
Maximum Power Current(Imp) [A]	12.76	12.83	12.90	12.97	13.04	13.11
Module Efficiency [%]	20.3	20.5	20.7	20.9	21.1	21.3
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(α_Isc)	+0.045%/°C					
Temperature Coefficient of Voc(β_Voc)	-0.275%/°C					
Temperature Coefficient of Pmax(γ_Pmp)	-0.350%/°C					
STC	Irradiance 1000W/m², cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.
Measurement tolerance at STC: Pmax ±3 %, Voc ±3% and Isc ±4%.

ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM72S30-525 /MR/1500V	JAM72S30-530 /MR/1500V	JAM72S30-535 /MR/1500V	JAM72S30-540 /MR/1500V	JAM72S30-545 /MR/1500V	JAM72S30-550 /MR/1500V
Rated Max Power(Pmax) [W]	397	401	405	408	412	416
Open Circuit Voltage(Voc) [V]	46.05	46.18	46.31	46.43	46.55	46.68
Max Power Voltage(Vmp) [V]	38.36	38.57	38.78	38.99	39.20	39.43
Short Circuit Current(Isc) [A]	10.97	11.01	11.05	11.09	11.13	11.17
Max Power Current(Imp) [A]	10.35	10.39	10.43	10.47	10.51	10.55
NOCT	Irradiance 800W/m², ambient temperature 20°C,wind speed 1m/s, AM1.5G					

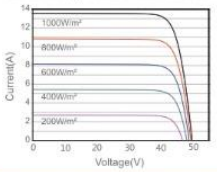
*For NexTracker installations, Maximum Static Load, Front is 2000Pa while Maximum Static Load, Back is2000Pa.

OPERATING CONDITIONS

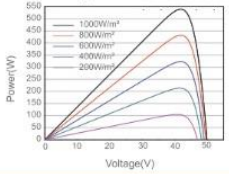
Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40℃~+85℃
Maximum Series Fuse Rating	25A
Maximum Static Load,Front* Maximum Static Load,Back*	3600Pa, 1.5 1600Pa, 1.5
NOCT	45±2℃
Safety Class	Class Ⅱ
Fire Performance	UL Type 1

CHARACTERISTICS

Current-Voltage Curve JAM72S30-540/MR/1500V



Power-Voltage Curve JAM72S30-540/MR/1500V



Current-Voltage Curve JAM72S30-540/MR/1500V