

# BLUE SUN POWER SERIES LOW VOLTAGE SINGLE AND THREE PHASE RESIDENTIAL AND COMMERCIAL SOLAR HYBRID BATTERY SOLUTIONS

## SYSTEMS OVERVIEW

This hybrid solution has been designed to create long-term energy savings and long-run battery backup power offering great performance and predictable returns for customers – **Over 100 Installed to date!**

- Systems can be **positioned in a server cabinet or Wall Mounted**
- Our Experienced Solar Installation team work on most roof types
- All systems are installed with bypass isolators, PV, Battery fuses Wifi comms
- All Electrical work from is carried out by our **by our Experienced certified electricians**
- Real-time, **live system monitoring** available on the **Susnsynk** or **Solarman App** on all devices
- All installations are supported by a **1 Year Workmanship warranty**,
- **DEYE or SUNSYNK Inverter Warrantee 5 years / REVOV Batteries 10 years (see details below)**
- **SSEG CoCT Application service and Electrical COC provided on all projects**

## SINGLE PHASE SERIES



### 5KW SUNSYNK 5KW REVOV Lithium battery



### 8KW SUNSYNK 8KW REVOV Lithium battery



The system is designed to optimally produce Solar Power to supply continuous power to essential loads in the building and charge the battery. The AC Electrical works will be custom designed to meet the essential load backup requirements during load shedding. The batteries will charge and discharge (Cycle) stored power each day to optimize the performance of the Solar system. **Should the batteries be full and there are only small loads the PV production will be throttled unless power is exported**

### THREE PHASE SERIES





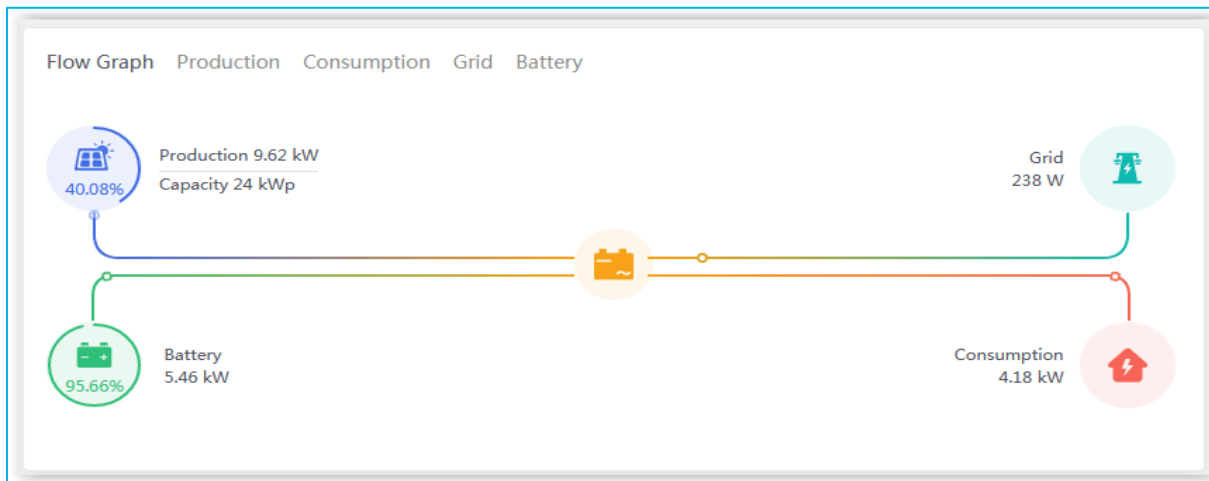
## A RANGE OF OUR 12KW SUNSYNK INVERTER SOLAR HYBRID INSTALLATIONS WITH 15KW REVOL LITHIUM BATTERIES



The system is designed to optimally produce Solar Power to supply continuous power to the essential loads in the building across the three phases and charge the battery. The AC Electrical works will be custom designed to meet the essential load backup requirements across the three phases during load shedding. The batteries will discharge stored power each day to optimize the performance of the Solar system. **Should the batteries be full and there are only small loads the PV production will be throttled unless power is exported**

## SUNSYNK SYSTEM MONITORING & REPORTING

- Visualisation of key performance parameters on the Sunsynk Portal for all devices
- Continuous RRemote Monitoring and diagnostics and for improved troubleshooting
- Track the performance of your investment in real-time
- Manage Settings on your phone on the Sunsynk app
  - Receive system alerts



## SYSTEM SPECIFICATIONS SHEETS

### Single Phase

Model	SUNSYNK-5.5K-SG02LP1
<b>Battery Input Data</b>	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range	40~60V
Max. Charging Current	120A
Max. Discharging Current	120A
Charging Curve	3 Stages/Equalisation
External Temperature Sensor	Optional
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS
<b>PV String Input Data</b>	
Max. DC Input Power	6500W
PV Input Voltage	370V (100V~500V)
MPPT Range	125~425V
Full Load DC Voltage Range	240~425V
Start-up Voltage	150V
PV Input Current	11A+11A
No. of MPPT Trackers	2
No. of Strings Per MPPT Tracker	1+1
<b>AC Output Data</b>	
Rated AC Output and UPS Power	5000W
Max. AC Power	5500W
Peak Power (off-grid)	2 times of rated power, 10 S
AC Output Rated Current	20.8A
Max AC Output Current	22.0039A
Max Continuous AC Passthrough	35A

Model	SUNSYNK-8K-SG01LP1 / SUNSYNK-8K-SG02LP1
<b>Battery Input Data</b>	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range	40~60V
Max. Charging Current	190A
Max. Discharging Current	190A
Charging Curve	3 Stages/Equalisation
External Temperature Sensor	Optional
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS
<b>PV String Input Data</b>	
Max. DC Input Power	10400W
PV Input Voltage	370V (100V~500V)
MPPT Range	125~425V
Full Load DC Voltage Range	240~425V
Start-up Voltage	150V
PV Input Current	22A+22A
No. of MPPT Trackers	2
No. of Strings Per MPPT Tracker	2+2
<b>AC Output Data</b>	
Rated AC Output and UPS Power	8000W
Max. AC Power	8800W
Peak Power (off-grid)	2 times of rated power, 10 S
AC Output Rated Current	33.4A/35A
Max AC Output Current	36.7A/38.5A
Max Continuous AC Passthrough	50A



## Three Phase

Model	SUN-8K-SG01LP3	SUN-10K-SG01LP3	SUN-12K-SG01LP3
Battery Input Data			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range	40~60V		
Max. Charging Current	190A	210A	240A
Max. Discharging Current	190A	210A	240A
Charging Curve	3 Stages/Equalization		
External Temperature Sensor	Optional		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data			
Max. DC Input Power	9880W	13000W	15000W
PV Input Voltage	450V (140V~1000V)		
MPPT Range	140V~800V		
Start-up Voltage	160V		
PV Input Current	12.5A+12.5A	25A+12.5A	25A+12.5A
No. of MPPT Trackers	2		
No. of Strings Per MPPT Tracker	1+1	2+1	2+1
AC Output Data			
Rated AC Output and UPS Power	8000W	10000W	12000W
Max. AC Power	8800W	11000W	13200W
Peak Power (off-grid)	2 times of rated power, 10 S		
AC Output Rated Current	11.6A	14.5A	17.4A
Max AC Output Current	12.8A	16A	19.1A
Max Continuous AC Passthrough	60A	60A	60A
Output Frequency and Voltage	50-60Hz; 230/400Vac (Three Phase)		
Grid Type	Three Phase		

## THE BLUE SUN POWER SERVER



- |                              |                          |
|------------------------------|--------------------------|
| 1 Built-in Ventilation Fans  | 5 Fuse Boxes             |
| 2 Sunsynk Hybrid Inverter    | 6 Sub-Distribution Board |
| 3 Black Steel Power Server   | 7 Server Cabinet Lock    |
| 4 Pre-wired Solar Connectors | 8 Revov Lithium Battery  |

## TIER ONE SOLAR PANELS

Preliminary

Harvest the Sunshine



DEEP BLUE 3.0

Mono

550W MBB Half-cell Module

JAM72S30 525-550/MR Series

Introduction

Assembled with 11BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



# JA SOLAR

[www.jasolar.com](http://www.jasolar.com)

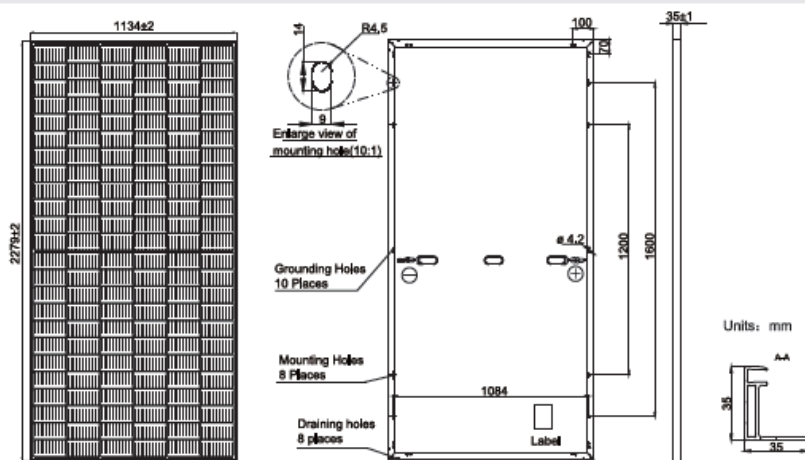
Specifications subject to technical changes and tests.  
JA Solar reserves the right of final interpretation.



# JA SOLAR

## JAM72S30 525-550/MR Series

### 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	4mm <sup>2</sup> (IEC) , 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10(1000V) QC 4.10-35(1500V)
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-)
Packaging Configuration	31pcs/Pallet, 620pcs/40ft Container

## REVOV BATTERIES



**R100** 51.2V 100Ah 5.1kWh

REVOV 2<sup>nd</sup> LiFe batteries are energy storage Lithium Iron Phosphate batteries that use superior 16 cell configuration, made up of repurposed automotive grade cells, which are designed to withstand harsh conditions, extreme temperatures and have a high energy density.

REVOV 2<sup>nd</sup> LiFe batteries are environmentally responsible, reducing electronic waste and repurposing important materials.

### KEY FEATURES

- Safe LiFePO<sub>4</sub> Chemistry
- Long Lifecycle
- High Temperature Performance
- High Energy Density
- High Charge and Discharge Rate
- High Efficiency
- Integrated Battery Management System (BMS)
- LCD Display - showing battery information

CODE: 2LIFE-R9-UBMS-R100-5.1

### WARRANTY

REVOV Batteries (PTY) LTD: The warranty is valid for either a time period of 10 years or a cycle count of:

- 6000 cycles at 80% Depth of Discharge (DoD)
- 5000 cycles at 90% Depth of Discharge (DoD).
- 3500 cycles at 100% Depth of Discharge (DoD)
- whichever lapses first.

**DoD** When used properly everyday the R100 can be safely discharged to 100% of its rated capacity. Battery life is shortened if it is discharged beyond its rated Ah capacity.