



**SOLAR PV SOLUTIONS  
- THAT PAY OFF -**

**ALWAYS ON. ALWAYS READY.**

**50 - 200 kWp Solar Back-Up  
for Enterprises**

**24/7 Power Security**

**Cost Saving**

**Long-Lasting**



**TAKE CONTROL OF YOUR POWER**

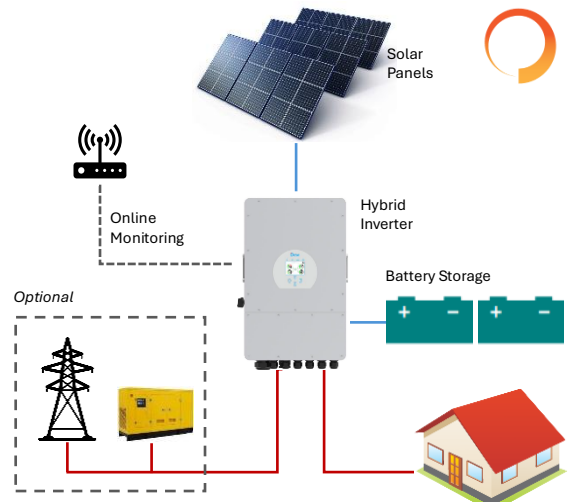
Equator Solar's Business Solutions are built to reliably power businesses and commercial properties with ease. Our solar systems are complete, pre-configured energy packages, delivered with all essential components included. From design and installation to ongoing maintenance, our skilled team takes care of everything. You simply enjoy reliable power 24/7.

**FLEXIBLY UPGRADE YOUR SYSTEM**

As your energy needs grow, you can expand the system with more solar panels or batteries. With optional grid and generator integration or smart load prioritization, you stay in full control of what gets powered.

**QUALITY ASSURED**

We are deeply committed to quality, offering only premium products from trusted, industry-leading manufacturers. All our solutions come with robust warranty coverage and are backed by long-term support you can count on.



**YOUR SOLAR POWER SOLUTION**

During the day, solar panels either power your appliances directly or charge the battery for use at night. The hybrid inverter ensures a smooth, interruption-free 3-phase power supply — day and night. The system can be configured as a fully autonomous off-grid solution or as a solar back-up integrated with grid and generator. Real-time performance monitoring is available via the intuitive mobile app.

Solar Panels	30 years Performance warranty
Inverters	5 years Product warranty
Batteries	10 years Manufacturer warranty
Installation & Workmanship	2 years Defect liability



Jinko Solar Tier 1 Panels



Deye Hybrid Inverter



BOS G Lithium Batteries



Cables, Plugs, Consumables



Installation and Interconnection



Smart Control with Online App



Warranty & Lifetime Support



Kampala, Ntinda

0707 670 251




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

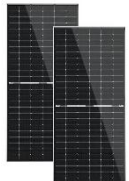



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**Technical Data**      **HV-50**      **HV-80**      **HV-100**      **HV-200**


<b>Hybrid Inverter</b>	<b>Deye</b>	<b>SUN-50K</b>	<b>SUN-80K</b>	<b>2x SUN-50K</b>	<b>4x SUN-50K</b>
	<b>Rated AC Active Power</b>	50,000 W	80,000 W	2x 50,000 W	5x 50,000 W
	<b>Max. AC Apparent Power</b>	55,000 VA	88,000 VA	2x 55,000 VA	4x 55,000 VA
	<b>No. of MPPT</b>	4	6	4x 2	4x 4
	<b>Grid Connection Form</b>	3-Phase (L+N+PE)			
	<b>Max. Efficiency</b>	97.6%			
	<b>Warranty</b>	5 Years			

<b>Solar PV Panels</b>	<b>Jinko Solar</b>	<b>Tiger Neo N-Type</b>			
	<b>Module Type</b>	JKM615N-66HL4M-BDV			
	<b>Cell Type</b>	N Type Mono-Crystalline			
	<b>Max. Power STC</b>	615 Wp			
	<b>Module Efficiency STC</b>	22.77%			
	<b>Warranty</b>	12 year product warranty, 30 year power warranty			
	<b>Dimensions</b>	2,382 x 1,134 x 30 mm			
	<b>Weight</b>	32.4 kg			

<b>Solar PV Array</b>		<b>Standard Solar Array Size</b>	25 kWp 41x panels	40 kWp 65x panels	50 kWp 82x panels	100 kWp 163x panels
		<b>Maximum Solar Array Size</b>	80 kWp 130x panels	128 kWp 208x panels	160 kWp 260x panels	320 kWp 520x panels
		<b>Solar Cable</b>	6 mm <sup>2</sup> , UV resistant, double insulated			
		<b>Mounting Type</b>	aluminium rail rooftop / concrete slab / ground			

<b>Battery Pack</b>	<b>Deye</b>	<b>BOS -G</b>			
	<b>Cell Type</b>	LFP			
	<b>Rated Energy</b>	5.12 kWh			
	<b>Max. Charge and Discharge</b>	100 A / 5.12 kW / 1 C			
	<b>Round Trip Efficiency</b>	≥ 97.6%			
	<b>Warranty</b>	10 years			
	<b>Dimensions</b>	440 x 570 x 133 mm			
	<b>Weight</b>	44 kg			

<b>Battery Bank</b>		<b>Standard Battery Bank Size</b>	50 kWh 10x pcs	80 kWh 16x pcs	100 kWh 20x pcs	200 kWh 40x pcs
		<b>Max. Battery Size per Rack</b>	60 kWh, 12x Batteries per rack			
		<b>BMS</b>	HVB750V/100A-EU			
		<b>Communication</b>	CAN / RS485 / Bluetooth / Wi-Fi			

<b>System Control</b>	<b>Deye</b>	<b>Stick Logger</b>			
	<b>Online Monitoring</b>	Real-time with remote access			
	<b>Monitoring Platform</b>	Deye Cloud / SOLARMAN			
	<b>Mobile App</b>	Deye Cloud / SOLARMAN Smart			
	<b>Remote Communication</b>	WIFI / 4G / LAN			
	<b>Data Interface</b>	RS485 / RS232 / TTL			

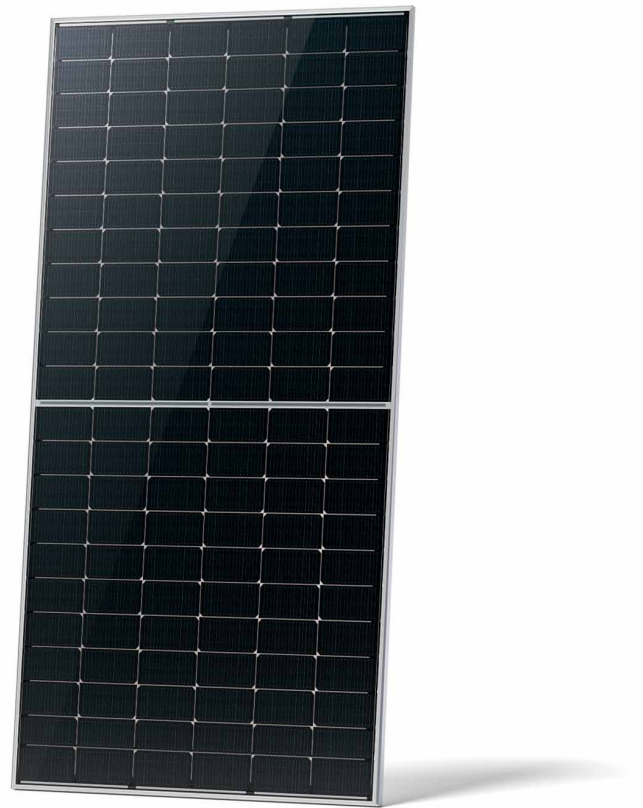
# TIGER Neo

## 66HL4M-BDV

### 605-630 Watt

BIFACIAL MODULE WITH DUAL GLASS

### N-type



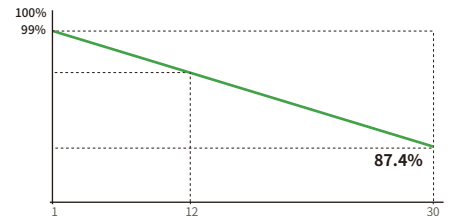
### N-Type Technology

N-Type modules with Tunnel Oxide Passivating Contacts (TOPcon) technology offer lower LID/LeTID degradation and better low light performance.



### HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



### Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.



### Mechanical Load Enhanced

Certified to withstand:  
5400 Pa front side max static test load  
2400 Pa rear side max static test load

<b>12</b> Year Product Warranty	<b>30</b> Year Linear Power Warranty	<b>1%</b> First-year Degradation	<b>0.40%</b> Annual Degradation Over 30 Years
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- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



### Anti-PID Guarantee

Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.



**JKM605-630N-66HL4M-BDV-F3-EN**

# 66HL4M-BDV 605-630 Watt

## Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	132 (66×2)
Dimensions	2382×1134×30 mm
Weight	32.4 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/MC4/Others
Output Cables	4.0 mm <sup>2</sup> (+): 400 mm , (-): 200 mm or Customized Length

## Packaging Configuration

Pallet Dimensions	2396×1110×1251 mm
Packing Detail (Two pallets = One stack)	36 pcs/pallets, 72 pcs/stack, 720 pcs/ 40'HQ Container

## Specifications (STC)

Maximum Power - Pmax [Wp]	605	610	615	620	625	630
Maximum Power Voltage - Vmp [V]	40.31	40.46	40.60	40.74	40.88	41.02
Maximum Power Current - Imp [A]	15.01	15.08	15.15	15.22	15.29	15.36
Open-circuit Voltage - Voc [V]	48.48	48.68	48.88	49.08	49.28	49.48
Short-circuit Current - Isc [A]	15.90	15.96	16.02	16.08	16.14	16.20
Module Efficiency STC [%]	22.40	22.58	22.77	22.95	23.14	23.32
Power Tolerance						0 ~ + 3 %
Temperature Coefficients of Pmax						-0.29 %/°C
Temperature Coefficients of Voc						-0.25 %/°C
Temperature Coefficients of Isc						0.045 %/°C

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Specifications (BNPI)

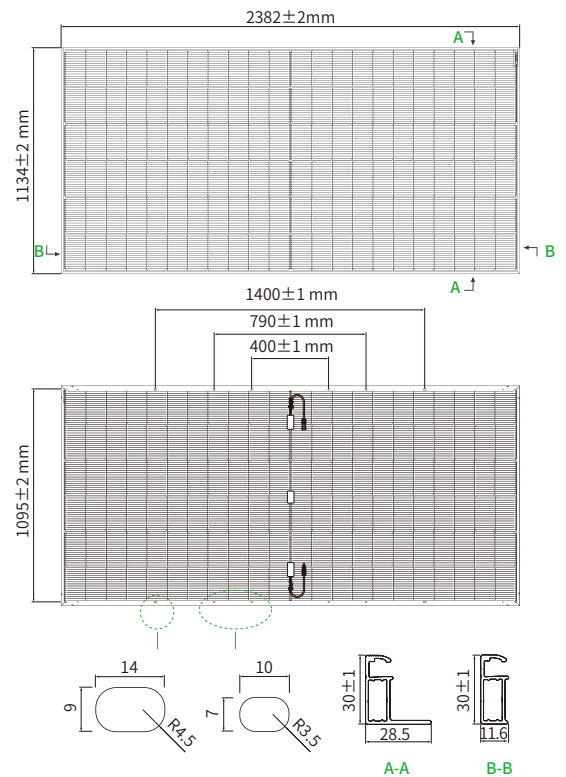
Maximum Power - Pmax [Wp]	668	674	679	685	690	696
Maximum Power Voltage - Vmp [V]	40.29	40.46	40.59	40.75	40.88	41.04
Maximum Power Current - Imp [A]	16.58	16.66	16.73	16.81	16.88	16.95
Open-circuit Voltage - Voc [V]	48.46	48.66	48.86	49.06	49.26	49.46
Short-circuit Current - Isc [A]	17.56	17.64	17.70	17.77	17.83	17.90

BNPI: Irradiance: front 1000W/m<sup>2</sup>, rear 135W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Application Conditions

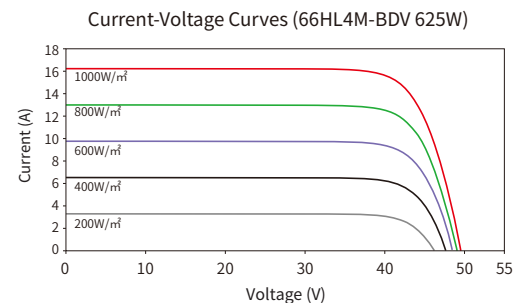
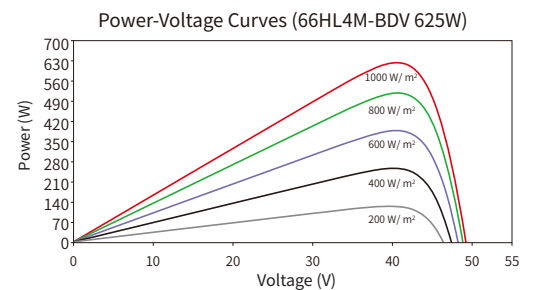
Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	35 A
Bifaciality Coefficient	φVoc: 98 ± 5 % , φIsc: 80 ± 5 % , φPmax: 80 ± 5 %

## Engineering Drawings



Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

## Electrical Performance





# Three Phase Hybrid Inverter

SUN-29.9/30/35K-SG01HP3-EU-BM3

SUN-40/50K-SG01HP3-EU-BM4



- 100** 100% unbalanced output, each phase
-  AC couple to retrofit existing solar system
- 10** Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 100** Max. charging/discharging current of 100A
- H** High voltage battery, higher efficiency
- 6** 6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

**Deye**

Stock Code: 605117.SH

Model	SUN-29.9K-SG01HP3 -EU-BM3	SUN-30K-SG01HP3 -EU-BM3	SUN-35K-SG01HP3 -EU-BM3	SUN-40K-SG01HP3 -EU-BM4	SUN-50K-SG01HP3 -EU-BM4
<b>Battery Input Data</b>					
Battery Type	Lithium-ion				
Battery Voltage Range (V)	160-800				
Max. Charging Current (A)	50+50				
Max. Discharging Current (A)	50+50				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	2				
<b>PV String Input Data</b>					
Max. PV Access Power (W)	59800	60000	70000	80000	100000
Max. PV Input Power (W)	38870	39000	45500	52000	65000
Max. PV Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	36+36+36			36+36+36+36	
Max. Input Short-Circuit Current (A)	55+55+55			55+55+55+55	
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+2+2			4/2+2+2+2	
<b>AC Input/Output Data</b>					
Rated AC Input/Output Active Power (W)	29900	30000	35000	40000	50000
Max. AC Input/Output Apparent Power (VA)	29900	33000	38500	44000	55000
Rated AC Input/Output Current (A)	45.4/43.4	45.5/43.5	53.1/50.8	60.7/58	75.8/72.5
Max. AC Input/Output Current (A)	45.4/43.4	50/47.9	58.4/55.8	66.7/63.8	83.4/79.8
Max. Continuous AC Passthrough (grid to load) (A)	200				
Peak Power (off-grid) (W)	1.5 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Grid Connection Form	3L+N+PE				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
<b>Efficiency</b>					
Max. Efficiency	97.60%				
Euro Efficiency	97.0%				
MPPT Efficiency	>99%				
<b>Equipment Protection</b>					
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
<b>Interface</b>					
Communication Interface	RS485/RS232/CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)				
<b>General Data</b>					
Operating Temperature Range ( )	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	2000m				
Noise (dB)	≤65				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	527×894×294 (Excluding Connectors and Brackets)				
Weight (kg)	80				
Type of Cooling	Intelligent Air Cooling				
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

# BOS-G



## ◆ Convenient

Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance.

## ◆ Safe and reliable

Cathode material is made from LiFePO<sub>4</sub> with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.

## ◆ Intelligent BMS

It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

## ◆ Eco-friendly

The whole module is non-toxic, non-polluting and environmentally friendly.

## ◆ Flexible configuration

Multiple battery modules can be in parallel for expanding capacity and power. Support USB upgrade, wifi upgrade(optional), remote up grade(Compatible with Deye inverter).

## ◆ Wide temperature

Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.

Model	BOS-GX(X=3,4,5,6,7,8,9,10,11,12)									
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### Main Parameter

Cell Chemistry	LiFePO4										
Module Energy (kWh)	5.12										
Module Nominal Voltage (V)	51.2										
Module Capacity (Ah)	100										
Battery Module Number	BOS-G15	BOS-G20	BOS-G25	BOS-G30	BOS-G35	BOS-G40	BOS-G45	BOS-G50	BOS-G55	BOS-G60	
Battery Module Qty In Series (Optional)	3	4	5	6	7	8	9	10	11	12	
System Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4	
System Operating Voltage (V)	124.8~175.2	166.4~233.6	208~292	249.6~350.4	291.2~408.8	332.8~467.2	374.4~525.6	416~584	457.6~642.4	499.2~700	
System Energy (kWh)	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44	
System Usable Energy (kWh) <sup>1</sup>	13.82	18.43	23.04	27.64	32.25	36.86	41.47	46.08	50.68	55.29	
Rated DC Power	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44	
Charge/Discharge <sup>2</sup> Current (A)	Recommend										50
	Nominal										100
	Peak Discharge (2 mins, 25°C)										125
Working Temperature (°C)	Charge: 0~55/Discharge: -20~55										
Status Indicator	Yellow: Battery High Voltage Power On Red: Battery System Alarm										
Communication Port	CAN2.0/ RS485										
Humidity	5%~85%RH										
Altitude	≤2000m										
IP Rating of Enclosure	IP20										
Dimension (W/D/H,mm)	530*602*1599					530*602*2187					
Weight Approximate (kg)	408					594					
Installation Location	Rack Mounting										
Storage Temperature (°C)	0~35										
Recommend Depth of Discharge	90%										
Cycle Life	25±2°C,0.5C/0.5C, EOL70%≥6000										
Warranty <sup>3</sup>	10 years										
Certification	CE/IEC62619 /VDE2510-50/ UL1973 /UL9540A/UN38.3										

1. DC Usable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.
4. Made in China.