

BiMAX 5N

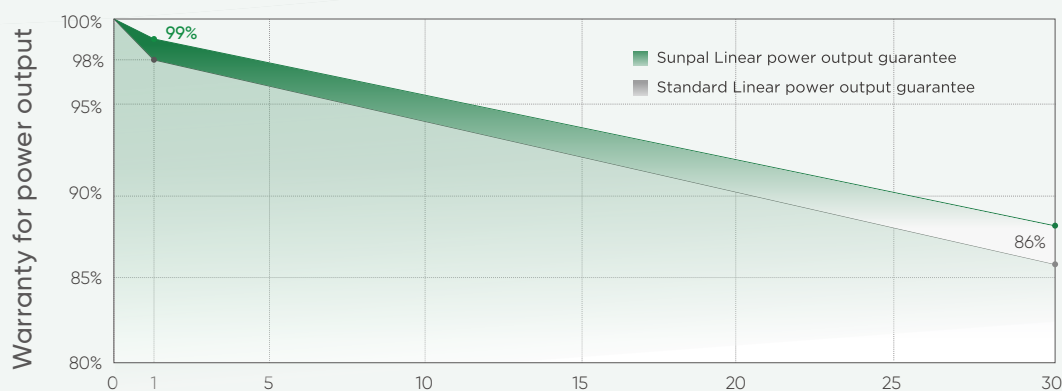
570-590W

**N-type TOPCon
Bifacial Dual Glass
Solar Module**

Quality Guarantee

25-year Materials Warranty

30-year Power Warranty



87.4%

22.84%^{Max}

Module Eff.

0~+5W

Positive Tolerance

Complete System and Product Certifications

IEC61215/IEC61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO 45001: Occupational Health and Safety Management System



* Specifications subject to technical changes and tests. Sunpal Solar reserves the right of interpretation.

Positive power tolerance (0~+5W) guaranteed

High module conversion efficiency (up to 22.84%)

Slower power degradation enabled by Low LID Mono TOPCON technology: first year <1%, 0.40% year 2-30

Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with optimized electrical design and lower operating current



Sunpal Power Co., Ltd.

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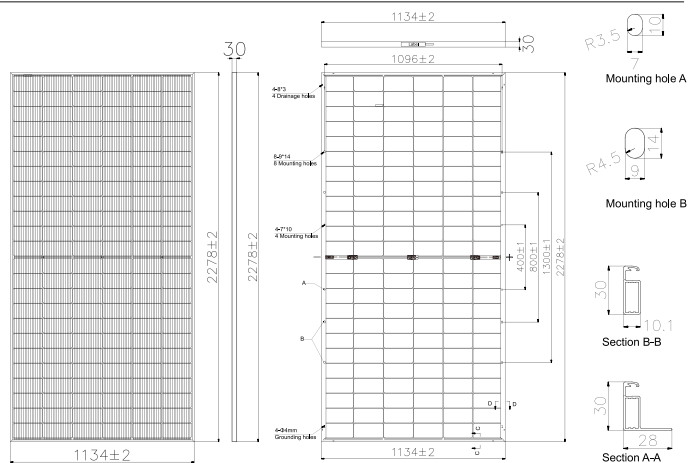
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MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	144 (6x24)
Dimensions	2278 x 1134 x 30mm
Weight	31.5kg
Front / Back Glass	2.0mm coated semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
	4.0mm ²
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	Front 5400Pa / Rear 2400Pa



ELECTRICAL PARAMETERS

POWER CLASS	570		575		580		585		590	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	570W	429W	575W	433W	580W	437W	585W	441W	590W	445W
Open Circuit Voltage (Voc)	51.41V	48.69V	51.55V	48.82V	51.68V	48.96V	51.81V	49.09V	51.94V	49.23V
Short Circuit Current (Isc)	14.15A	11.41A	14.22A	11.47A	14.29A	11.53A	14.36A	11.59A	14.43A	11.65A
Voltage at Maximum power (Vmpp)	42.41V	39.36V	42.56V	39.51V	42.71V	39.66V	42.86V	39.80V	43.00V	39.95V
Current Maximum Power (Impp)	13.44A	10.90A	13.51A	10.96A	13.58A	11.02A	13.65A	11.08A	13.72A	11.14A
MODULE EFFICIENCY (%)	22.07%		22.26%		22.45%		22.65%		22.84%	

STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

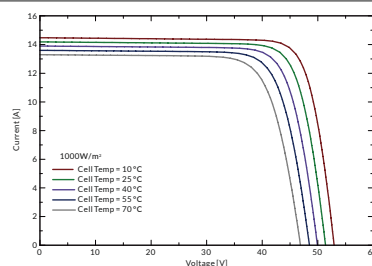
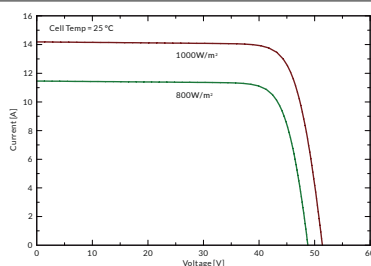
5%	Maximum power (Pmax)	599W	604W	609W	614W	620W
	Module Efficiency STC (%)	23.17%	23.37%	23.57%	23.78%	23.98%
15%	Maximum power (Pmax)	656W	661W	667W	673W	679W
	Module Efficiency STC (%)	25.37%	25.60%	25.82%	26.04%	26.27%
25%	Maximum Power (Pmax)	713W	719W	725W	731W	738W
	Module Efficiency STC (%)	27.58%	27.82%	28.07%	28.31%	28.55%

PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	37	37
Pallets per container	5	20
Pieces per container	185	740

I-V CURVE

575ND/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0/+5W

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

Single Phase Hybrid Inverter

SUN-7.6/8K-SG02LP1-EU-AM2

SUN-10/12K-SG02LP1-EU-AM3



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 250A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

Model	SUN-7.6K-SG02 LP1-EU-AM2	SUN-8K-SG02 LP1-EU-AM2	SUN-10K-SG02 LP1-EU-AM3	SUN-12K-SG02 LP1-EU-AM3
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	190	190	220	250
Max. Discharging Current (A)	190	190	220	250
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV Access Power (W)	15200	16000	20000	24000
Max. PV Input Power (W)	12160	12800	16000	19200
Max. PV Input Voltage (V)	500			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-425			
Rated PV Input Voltage (V)	370			
Max. Operating PV Input Current (A)	26+26		26+26+26	
Max. Input Short-Circuit Current (A)	44+44		44+44+44	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2		3/2+2+2	
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	7600	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	8360	8800	11000	13200
Rated AC Input/Output Current (A)	34.6/33.1	36.4/34.8	45.5/43.5	54.6/52.2
Max. AC Input/Output Current (A)	34.6/33.1	36.4/34.8	45.5/43.5	54.6/52.2
Max. Continuous AC Passthrough (grid to load) (A)	50		60	
Peak Power (off-grid) (W)	2 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Grid Connection Form	L+N+PE			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Equipment Protection				
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)			
Interface				
Communication Interface	RS485/RS232/CAN			
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)			
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	<45			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	420×670×233 (Excluding Connectors and Brackets)			
Weight (kg)	35.6			
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	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150			
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			

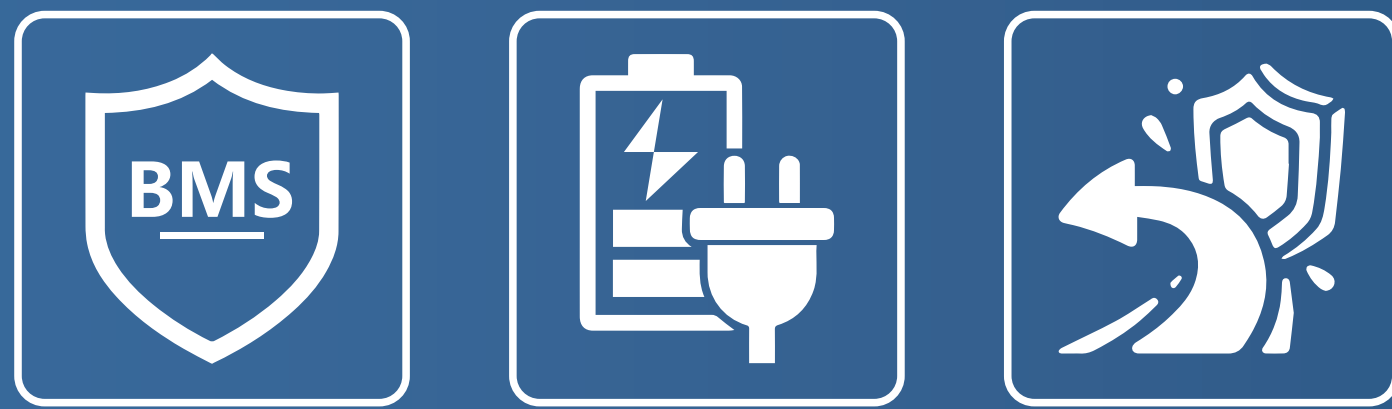
Wall-Mounted

Energy Storage Battery



51.2V

M16S100-200BL-V₂



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BATTERY FEATURES

- ◆ Original Grade A lithium iron phosphate battery cell has high safety and reliability
- ◆ The charging and discharging efficiency is high, and the number of cycles is more than 3500 times
- ◆ Compatible with most inverters on the market
- ◆ Supporting RS485 and CAN communication
- ◆ Modular design, can be expanded at any time to increase the energy of the system
- ◆ Supporting up to 15 batteries in parallel
- ◆ ON/OFF switch control output
- ◆ The LCD display monitors the operating status in real time

Product Description

Product Model	M16S100BL-V ₂	M16S200BL-V ₂
Cells In Series	16S	16S
Rated Energy (KWh)	5.12	10.24
Rated Voltage (V)	51.2	51.2
Charging Voltage (V)	58.4	58.4
Discharge Cut-off Voltage (V)	42	42
Standard Charge Current (A)	20	40
Maximum Charging Current (A)	100	100
Maximum Discharge Current (A)	100	100

Features

Cycle Life	≥ 3500 times @ 80% DOD, 25 °C	≥ 3500 times @ 80% DOD, 25 °C
Methods Of Communication	RS232/RS485/CAN	RS232/RS485/CAN
Charging Temperature	0~60°C	0~60°C
Discharge Temperature	-10~65°C	-10~65°C
How It Is Displayed	LCD display	LCD display
IP Protection	IP 21	IP 21

Conventional

Product Dimensions (L×W×Hmm)	440×150×560	520×150×680
Net Weight (Kg)	44	80
Packing Dimensions (L×W×Hmm)	525×340×645	595×316×755
Gross Weight (Kg)	50	98

02

FIELDS OF APPLICATION

Wall-Mounted Energy Storage LiFePO₄ Battery, and the main use areas are as follows:

Standby power

Home energy storage

Machine shop

Solar storage ...



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