

**BY**  
RONKAR SOLAR ENERGY  
COMPANY



# PRODUCT CATALOG

2026



# About Us

**We're a solar energy company** that makes clean power simple affordable and reliable we help homes and businesses switch to solar by designing installing and maintaining systems that save money and reduce environmental impact our experienced team focuses on quality safety and long lasting performance we don't just install solar panels we help people take control of their energy lower their bills and build a cleaner future.



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پانزینخانا کورد نە



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# Panels

## Longi Hi-MO x 10 645w LR8-66HDV

Suitable for distribution market

Highest efficiency with the best energy generation performance

TaiRay wafer & BC technology enhances high product reliability

More suitable for industrial and commercial cement roofs and high temperature scenarios



15

15-Years Warranty for Materials and Processing

30

30-Years Warranty for Extra Linear Power Output

03



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**24.6%**  
MAX MODULE  
EFFICIENCY

**0~3%**  
POWER  
TOLERANCE

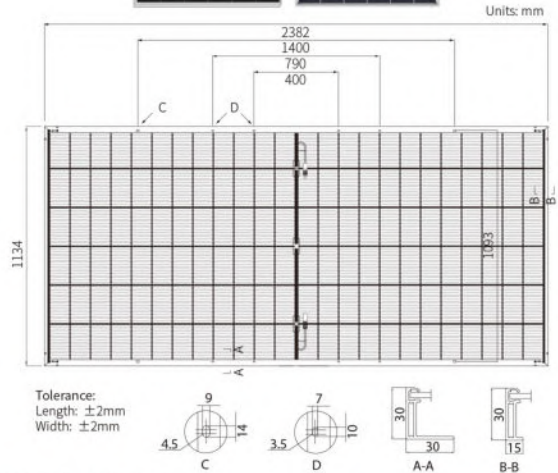
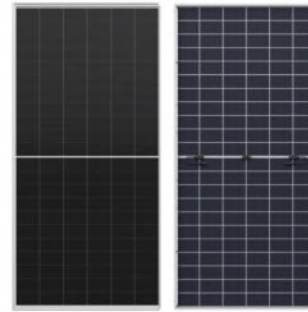
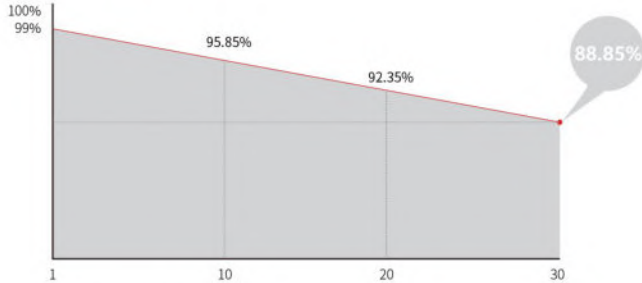
**<1%**  
FIRST YEAR  
POWER DEGRADATION

**0.35%**  
YEAR 2-30  
POWER DEGRADATION

**BC-CELL**  
LOWER OPERATING  
TEMPERATURE

### Additional Value

#### 30-Year Power Warranty



### Mechanical Parameters

Cell Orientation	132 (6×22)
Junction Box	IP68, three diodes
Output Cable	4mm <sup>2</sup> , +400, -200mm/±1400mm length can be customized
Glass	Dual glass, 2.0+2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	33.5kg
Dimension	2382×1134×30mm
Packaging	36pcs per pallet / 144pcs per 20' GP / 720pcs per 40' HC

### Electrical Characteristics

STC : AM1.5 1000W/m<sup>2</sup> 25°C      NOCT : AM1.5 800W/m<sup>2</sup> 20°C 1m/s

Test uncertainty for Pmax: ±3%

Module Type	LR8-66HVD-640M		LR8-66HVD-645M		LR8-66HVD-650M		LR8-66HVD-655M		LR8-66HVD-660M		LR8-66HVD-665M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	640	487.2	645	491.0	650	494.8	655	498.6	660	502.4	665	506.2
Open Circuit Voltage (Voc/V)	49.52	47.06	49.62	47.16	49.72	47.25	49.82	47.35	49.92	47.44	50.02	47.54
Short Circuit Current (Isc/A)	16.38	13.16	16.46	13.22	16.54	13.28	16.62	13.35	16.70	13.41	16.78	13.48
Voltage at Maximum Power (Vmp/V)	40.78	38.76	40.88	38.85	40.98	38.95	41.08	39.04	41.18	39.14	41.28	39.23
Current at Maximum Power (Imp/A)	15.69	12.58	15.78	12.65	15.86	12.72	15.94	12.78	16.03	12.85	16.11	12.92
Module Efficiency(%)	23.7		23.9		24.1		24.2		24.4		24.6	

### Electrical characteristics with different rear side power gain (reference to 645W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
677	49.62	17.28	40.88	16.57	5%
710	49.62	18.11	40.88	17.36	10%
744	49.62	18.93	40.98	18.15	15%
776	49.72	18.93	40.98	18.94	20%
808	49.72	20.58	40.98	19.73	25%

### Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	35A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	70±5%
Fire Rating	UL type 29 IEC Class C

### Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

### Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.200%/°C
Temperature Coefficient of Pmax	-0.260%/°C

# Panels

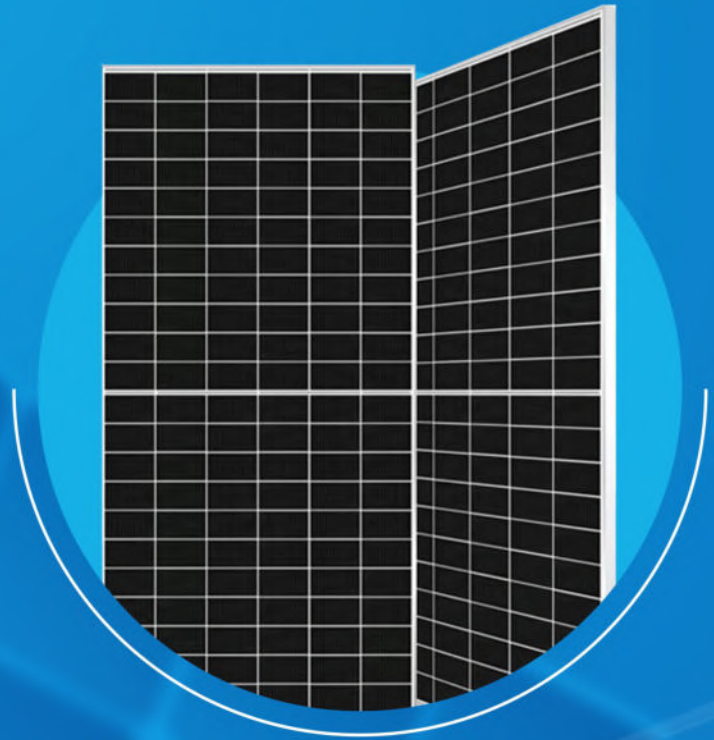
## HUASUN 720 w Himalaya G12 Series

Combining gettering process and  $\mu\text{-Si}$  technology to ensure higher module power

Natural symmetrical bifacial structure bringing more energy yield from the backside

Stronger moisture resistance, greater air impermeability to extent module lifespan

Lower BOS cost, lower LCOE



15

15-Years Warranty for Materials and Processing

30

30-Years Warranty for Extra Linear Power Output

05



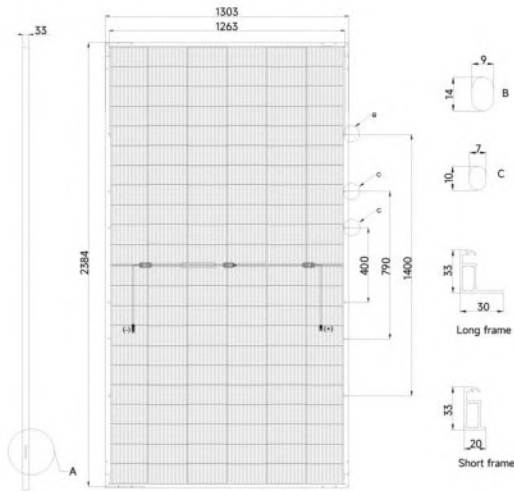
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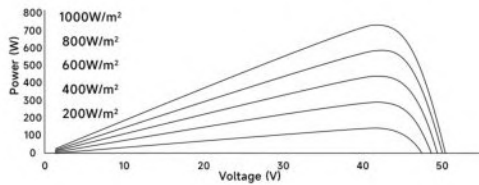
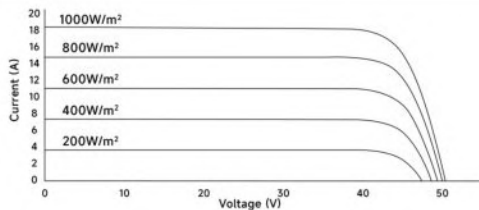
## Engineering Drawings

Unit: mm



## I-V Curve

(HS-210-B132DS730)



## Temperature Characteristics

Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	+0.04%/°C

## Operating Conditions

Nominal Operating Cell Temp.	44±2°C
Operating Temperature	-40~+85°C
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	35A
Tolerance of Pmax	0~+3%
Power Selection	0~+5W
Bifaciality	90±5%
Safety Class	Class II

## Mechanical Characteristics

Cell Type	HJT
No. of Cells	132 (6x22)
Dimensions	2384 x 1303 x 33 mm
Weight	37.9 kg
Junction Box	IP68
Cable	4mm²; +350/-250mm or customized; UV resistant
Connector	MC4 / MC4-Evo2 / MC4-Evo2A / PV-H4 / Z4S-abcd / PV-ZH202B
Frame	Anodized aluminum alloy frame
Max Static Load (front side/rear side)	5400Pa / 2400Pa
Glass	Dual glass, 2.0mm

## Electrical Characteristics

### STC

HS-210-B132	DS700	DS705	DS710	DS715	DS720	DS725	DS730
Maximum Power (Pmax/W)	700	705	710	715	720	725	730
Module Efficiency (%)	22.5	22.7	22.9	23.0	23.2	23.3	23.5
Voltage at Pmax (Vmp/V)	41.78	41.87	41.96	42.05	42.14	42.23	42.32
Current at Pmax (Imp/A)	16.76	16.84	16.93	17.02	17.10	17.18	17.26
Open Circuit Voltage (Voc/V)	49.77	49.87	49.97	50.07	50.17	50.27	50.37
Short Circuit Current (Isc/A)	17.81	17.90	17.99	18.08	18.17	18.26	18.35

STC: AM1.5, 1000W/m², 25°C.

### BNPI

Maximum Power (Pmax/W)	785	790	796	801	807	813	818
Voltage at Pmax (Vmp/V)	41.92	42.02	42.11	42.20	42.29	42.38	42.47
Current at Pmax (Imp/A)	18.73	18.82	18.91	19.00	19.10	19.19	19.28
Open Circuit Voltage (Voc/V)	49.94	50.04	50.14	50.24	50.34	50.44	50.54
Short Circuit Current (Isc/A)	19.97	20.07	20.18	20.28	20.38	20.48	20.58

BNPI: AM1.5, 1000W/m², 135W/m², 25°C.

### NOCT

Maximum Power (Pmax/W)	534	538	542	545	549	553	557
Voltage at Pmax (Vmp/V)	39.90	40.00	40.07	40.14	40.23	40.32	40.41
Current at Pmax (Imp/A)	13.39	13.46	13.53	13.60	13.67	13.73	13.79
Open Circuit Voltage (Voc/V)	47.50	47.60	47.69	47.79	47.88	47.98	48.08
Short Circuit Current (Isc/A)	14.23	14.31	14.38	14.45	14.52	14.59	14.67

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

## Packaging

	40'HQ
Modules Per Pallet	33
Pallets Per Container	18
Modules Per Container	594

# Inverters

## SOROTEC REVO HES G2



**Easy access**  
Accessible through a LCD touch screen and through the web



**Safe**  
Physical and electrical dual isolation, Earth Leakage Current Monitoring, Anti-island protection, Insulation detection and so on



**BMS**  
Battery Communication for lithium battery



**Remote Monitoring**  
Control and monitor your smart system on the move via our monitoring App and website



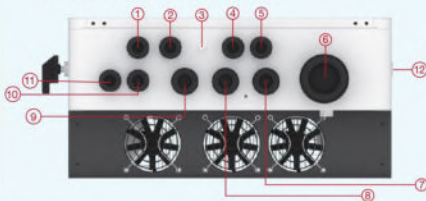
**ON-Grid and OFF-Grid**  
REVO HES series is suitable for on-grid and off-grid applications.



**Flexible Rate Tariff**  
Charge from the grid at off-peak time when energy is cheaper, and discharge at peak time when energy is more expensive.



### Product characteristics

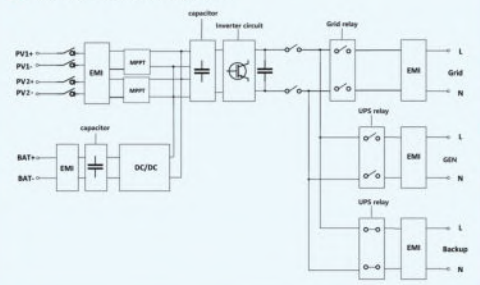


1. PARALLEL
2. CT
3. WIFI
4. BMS
5. RS232/Dry
6. BAT
7. GEN
8. AC OUTPUT
9. AC INPUT
10. PV1
11. PV2
12. Battery switch

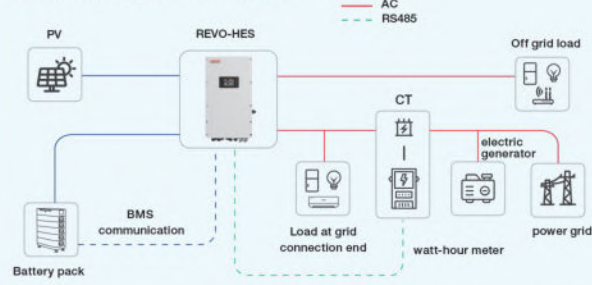


LCD touch screen

### Circuit block diagram



### Product application diagram



Technical Specification	REVO HES series			REVO HES-G2 series
Rated Power	6000VA/6000W	8000VA/8000W	10000VA/10000W	6000VA/6000W
<b>PV INPUT</b>				
Max.power(kW)	7	11	13	9.6
Max.DC voltage(V)	500			
MPPT voltage range(V)	90~450			
Max.input current(A)	30	20+20		16+16
MPPT number/Max.input strings number	1/2	2/2		2/2
<b>AC OUTPUT(GRID-TIED)</b>				
Grid voltage/range(V)	230/90~280(For Personal Computers),170~280(For Home Appliances)			
Frequency(Hz)	50/60			
PF	0.8lagging-0.8leading			
THDi	<3%			
AC output topology	L+N+PE			
<b>BATTERY</b>				
Battery voltage range(V)	40~63			
Max.charging voltage(V)	63			
Max.charge/discharge current(A)	120/140	150/190	150/220	120/140
Battery type	Lithium /Lead-acid			
<b>UPS OUTPUT</b>				
Rated power (kw)	6	8	10	6
Rated output voltage(V)	220/230/240			
Rated output current(A)	27.2/27/25	36.3/34.7/33.3	45.4/43.5/41.7	27.2/27/25
Rated frequency (Hz)	50/60			
Transfer Time(ms)	<10			
THDu	<10%			
Overload capacity	5s≥110%load,10s≥101%~110%load			
<b>PROTECTION &amp; FEATURE</b>				
Anti-island protection	Yes			
Insulation monitoring	Yes			
Residual current monitoring	Yes			
Parallel function	Yes,6 units			
Other protection	AC overcurrent,AC overvoltage,Over temperature protection			
<b>GENERAL PARAMETER</b>				
Degree of protection	IP66			
Operation temperature	-25°C~50°C,>45°C derating			
Cooling	smart cooling			
Relative humidity	5~95% (non-condensing)			
Altitude	(>2000m Derating)			
Dimensions W x D x H(mm)	700*396*192	630*440*215		540*390*220
Net Weight(KG)	27	38	38.2	23.4
Isolation transformer	No			
Self-consumption(W)	<5			
<b>DISPLAY AND COMMUNICATION</b>				
Display	Touch screen			
Interface	Standard:RS232,CAN&RS485; Optional:WiFi,CT			
Safety standard	EN/IEC62109-1,EN/IEC62109-2			

# Inverters



**MPPT**  
Pure sine wave MPPT solar Inverter  
Built-in 120A MPPT solar charger



**Battery**  
Battery equalization function extend life cycle  
Reserved communication port(RS485,CAN)for BMS



**Hybrid**  
REVO VM II PRO-G2 series is suitable for off-grid and on grid(optional) applications.



**Easy access**  
High PV input voltage range  
Two outputs for smart load management

## SOROTEC REVO VM II PRO



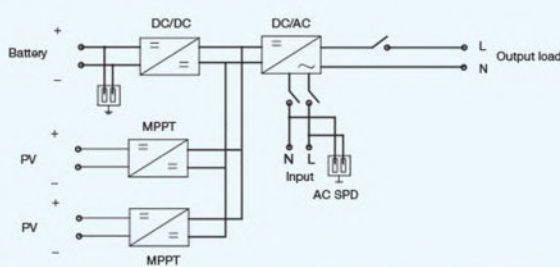
### • With battery connected



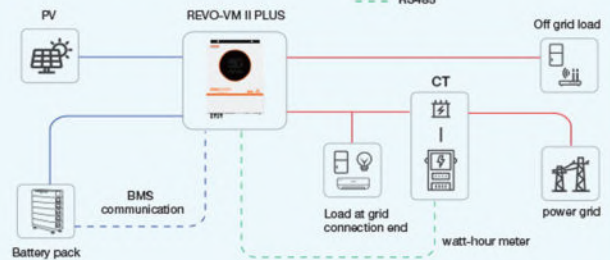
### • Without battery connected



### • Schematic diagram



### • Product application diagram



Technical Specification	REVO VM II PRO G2 series
Rated Power	6000VA/6000W
<b>AC INPUT</b>	
AC Voltage	230VAC
Voltage Range	170-280VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)
Frequency Range	50/60Hz (Auto sensing)
<b>AC OUTPUT</b>	
Surge Power	12000VA
AC Voltage Regulation (Battery Mode)	230VAC $\pm$ 5%
Rated frequency	50/60Hz
Efficiency (Peak)	93%
Transfer Time	10ms (For Personal Computers) ; 20ms (For Home Appliances)
<b>BATTERY</b>	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
Overcharge Protection	63VDC
Battery type	Lithium/Lead-acid
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Maximum PV Array Open Voltage(V)	500VDC
Maximum PV Array Power	2*4000W
MPPT voltage range(V)	60~450VDC
Maximum input current	2*16A
MPPT tracker/strings	2
Maximum solar charge current	120A
Maximum AC charge current	100A
Maximum charge current	120A
<b>PROTECTION &amp; FEATURE</b>	
AC overcurrent	Yes
AC overvoltage	Yes
Over temperature protection	Yes
Smart load management	Yes
Parallel Function	Yes (optional)
<b>GENERAL PARAMETERS</b>	
Operation temperature	-10°C ~ 50°C
Relative humidity	5% ~ 95% (Non-condensing)
Altitude	(2000m Derating)
Dimensions DxWxH(mm)	458*400*130
Net Weight(KG)	12.5
<b>COMMUNICATION</b>	
Interface	Standard:RS232,USB; CAN&RS485; Optional:WiFi,Bluetooth
Safety standard	EN/IEC62109-1,EN/IEC62109-2

# Inverters

## DEYE BRAND

on grid - three phase



2 MPP trackers, Max. efficiency up to 98.5%



Wide output voltage range



Zero export application, VSG application



Anti-PID function (Optional)



String intelligent monitoring (optional)

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S O L A R



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Model	SUN-3K-G06 P3-EU-AM2 -P1	SUN-4K-G06 P3-EU-AM2 -P1	SUN-5K-G06 P3-EU-AM2 -P1	SUN-6K-G06 P3-EU-AM2 -P1	SUN-7K-G06 P3-EU-AM2 -P1	SUN-8K-G06 P3-EU-AM2 -P1	SUN-9K-G06 P3-EU-AM2 -P1	SUN-10K-G06 P3-EU-AM2 -P1	SUN-12K-G06 P3-EU-AM2 -P1	SUN-15K-G06 P3-EU-AM2 -P1
<b>PV String Input Data</b>										
Max. PV Input Power (kW)	4.5	6	7.5	9	10.5	12	13.5	15	18	22.5
Max. PV Input Voltage (V)	1100									
Start-up Voltage (V)	140									
MPPT Voltage Range (V)	120-1000									
Rated PV Input Voltage (V)	600									
Max. Operating PV Input Current (A)	20+20									20+26
Max. Input Short Circuit Current (A)	30+30									30+39
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1									2/1+2
<b>AC Output Side</b>										
Rated AC Output Active Power (kW)	3	4	5	6	7	8	9	10	12	15
Max. AC Output Apparent Power (kVA)	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11	13.2	16.5
Rated AC Output Current (A)	4.6/4.4	6.1/5.8	7.6/7.3	9.1/8.7	10.7/10.2	12.2/11.6	13.7/13.1	15.2/14.5	18.2/17.4	22.8/21.8
Max. AC Output Current (A)	5/4.8	6.7/6.4	8.4/8	10/9.6	11.7/11.2	13.4/12.8	15/14.4	16.7/16	20/19.2	25/24
Rated Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un									
Grid Connection Form	3L/N/PE									
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65									
Power Factor Adjustment Range	0.8 leading to 0.8 lagging									
Total Current Harmonic Distortion THDi	<3%									
DC Injection Current	<0.5In									
<b>Efficiency</b>										
Max. Efficiency	98.1%		98.2%			98.3%			98.5%	
Euro Efficiency	97.5%		97.6%			97.8%			98%	
MPPT Efficiency	>99%									
<b>Equipment Protection</b>										
DC Polarity Reverse Connection Protection	Yes									
AC Output Overcurrent Protection	Yes									
AC Output Overvoltage Protection	Yes									
AC Output Short Circuit Protection	Yes									
Thermal Protection	Yes									
DC Terminal Insulation Impedance Monitoring	Yes									
DC Component Monitoring	Yes									
Ground Fault Current Monitoring	Yes									
Arc Fault Circuit Interrupter (AFCI)	Optional									
Power Network Monitoring	Yes									
Island Protection Monitoring	Yes									
Earth Fault Detection	Yes									
Overvoltage Load Drop Protection	Yes									
Residual Current (RCD) Detection	Yes									
Surge Protection Level	TYPE II(DC), TYPE II(AC)									
<b>Interface</b>										
Communication Interface	RS485/RS232									
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)									
<b>General Data</b>										
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating									
Permissible Ambient Humidity	0-100%									
Permissible Altitude (m)	4000m									
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)	283x463x178 (Excluding Connectors and Brackets)									
Weight (kg)	11									
Warranty	5 Years									
Type of Cooling	Natural Cooling									Intelligent air cooling
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									

# Inverters

## DEYE BRAND

### hybrid - three phase



100

100% unbalanced output, max. output up to 50% rated power for 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

350

Max. charging/discharging current of 350A

48

48V low voltage battery, transformer isolation design

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator

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S O L A R



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Model	SUN-14K-SG05LP3 -EU-SM2	SUN-15K-SG05LP3 -EU-SM2	SUN-16K-SG05LP3 -EU-SM2	SUN-18K-SG05LP3 -EU-SM2	SUN-20K-SG05LP3 -EU-SM2
<b>Battery Input Data</b>					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charging Current (A)	260	280	300	330	350
Max. Discharging Current (A)	260	280	300	330	350
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
<b>PV String Input Data</b>					
Max. PV Access Power (W)	28000	30000	32000	36000	40000
Max. PV Input Power (W)	22400	24000	25600	28800	32000
Max. PV Input Voltage (V)	800				
Start-up Voltage (V)	160				
MPPT Voltage Range (V)	160-650				
Rated PV Input Voltage (V)	550				
Max. Operating PV Input Current (A)	36+36				
Max. Input Short-Circuit Current (A)	54+54				
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2				
<b>AC Input/Output Data</b>					
Rated AC Input/Output Active Power (W)	14000	15000	16000	18000	20000
Max. AC Input/Output Apparent Power (VA)	15400	16500	17600	19800	22000
Rated AC Input/Output Current (A)	21.3/20.3	22.8/21.8	24.3/23.2	27.3/26.1	30.4/29
Max. AC Input/Output Current (A)	23.4/22.4	25/24	26.7/25.6	30/28.7	33.4/31.9
Max. Continuous AC Passthrough (grid to load) (A)	70				
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)	220/380V, 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	97.6%				
Euro Efficiency	97.0%				
MPPT Efficiency	>99%				
<b>Equipment Protection</b>					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
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 (°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
Noise (dB)	<60				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	456×750×268.5 (Excluding Connectors and Brackets)				
Weight (kg)	51.9				
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				

# Inverters

## CHISSAGE

12 kw hybrid three phase

14 kw hybrid three phase



### PRODUCT FEATURE

- Support different power inverters parallel connection
- 20 PCS inverters parallel for off-grid operation
- Support on/off grid mode switch, EPS output
- Support storing energy from diesel generator
- ARC fault detection optional
- Colorful 7-inch touch LCD, IP65 protection degree
- Support battery charging/discharging according to the time setting
- Independent AC input port for diesel generator
- 100% unbalanced output each phase max. output up to 5kW

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## Technical Data

Model	Mars-5G2-LE	Mars-6G2-LE	Mars-8G2-LE	Mars-10G2-LE	Mars-12G2-LE	Mars-14G2-LE
<b>Battery Input</b>						
Battery Type	Lead-acid or Li-ion					
Battery Voltage Range (V)	40-60					
Max. Charge Current (A)	120	130	200	220	250	280
Max. Discharge Current (A)	120	130	200	220	250	280
Charging Curve	3 Stages/Equalization					
External Temperature Sensor	Optional					
Charging Strategy for Li-ion Battery	Self-Adaption to BMS					
<b>PV String Input</b>						
Max. DC Input Power (W)	7,500	9,000	12,000	15,000	18,000	20,000
PV Input Voltage (V)	650(160-800)					
MPPT Range (V)	200-700					
Full Load DC Voltage Range (V)	260-650					
Start-up Voltage (V)	160					
PV Input Current (A)	17+17	17+17	17+17	26+17	26+17	26+17
Max. PV Isc (A)	20+20	20+20	20+20	34+20	34+20	34+20
No. of MPPT Trackers	2					
No. of Strings per MPPT Trackers	1+1	1+1	1+1	2+1	2+1	2+1
<b>AC Output</b>						
Rated AC Output and UPS Power (W)	5,000	6,000	8,000	10,000	12,000	14,000
Max. AC Output Power (W)	6,000	7,200	9,600	12,000	13,200	15,400
Peak Power(off grid)	2 times of rated power, 10s					1.8 times of rated power, 10s
AC Output Rated Current (A)	7.6/7.3	9.1/8.7	12.1/11.6	15.2/14.5	18.2/17.4	21.1/20.3
Max. AC Current (A)	11.4/10.9	13.6/13	18.2/17.4	22.7/21.7	27.3/26.1	27.6/26.4
Max. Continuous AC Passthrough (A)	30	30	30	50	50	50
Power Factor	0.8 leading to 0.8 lagging					
Output Frequency and Voltage (V)	50/60Hz, 380/400Vac(Triple phase)					
Grid Type	Three phase					
Current Harmonic Distortion	THD<3%(Linear load<1.5%)					
<b>Efficiency</b>						
Max. Efficiency	97.90%					
Euro Efficiency	96.90%					
MPPT Efficiency	99.90%					
<b>Protection</b>						
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation					
PV ARC Fault Detection	Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection					
Output Over Voltage Protection	Optional					
Certifications and Standards	DC Type II/AC Type III					
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699,C10-11					
Safety Regulation	IEC/EN62109-1, IEC/EN62109-2					
EMC	IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4					
<b>General Data</b>						
Operating Temperature Range (°C)	-45-60, >45 Derating					
Cooling	Smart Cooling					
Noise (dB)	≤45					
Communication with BMS	CAN, RS485					
Weight (kg)	38	40	42	44	44	45
Dimensions (mm)	510W × 630H × 290D					
Protection Degree	IP65					
Installation Style	Wall-mounted					

# Battery

## CHISSAGE MOON16-G 16 kw



### PRODUCT FEATURE

- LCD display and support bluetooth connection
- Up to 15 packs can be parallel connected
- High inverter compatibility
- Safe LiFePO4 rechargeable battery
- High usable energy ratio, less self-consumption

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## Technical Data

Model	MOON16-G
Nominal Energy (Wh)	16076.8
Nominal Capacity (Ah)	314
Nominal Voltage (V)	51.2
Operation Voltage Range (V)	44.8-57.6
Recommend Charge Current (A)	150
Max. Continuous Charge Current (A)	150
Recommend Discharge Current (A)	150
Max. Continuous Discharge Current (A)	150
Max. Parallel Quantities (pcs)	15
Operation Temperature	Charge Temperature: 0-60°C Discharge Temperature: -20-60°C
Operation Humidity	20-80%RH (No condensing)
Protection Degree	IP20
Dimension (mm)	420Wx800Hx250D (Without floor mount foot)
Net Weight (kg)	115
Installation	Wall mounted, floor mounted
Certification	IEC61000, IEC62619, UN38.3
Communication	CAN, RS485
Cycle Life	6000≥100%DOD, 70%EOL@25°C/0.5C



# Battery

**ZETATECH**  
**ZT-51280F**



Nominal Capacity  
**280 Ah**



Nominal Voltage  
**51.2 V**



Technology  
**LFP (LiFePO4)**

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Physical	
51V280Ah	
Battery Parameters	
Battery Type	LFP(LiFePO4)
Nominal Voltage(V)	51.2
Voltage Range(V)	44-57.6
Charge Float Voltage(V)	54
Equalizing Voltage(V)	57.6
Charge-Down Current Turn-on Conditions	Overall voltage $\geq 56V$
	Or single $\geq 3.5V$
Charge Down Current Value	$\leq 10A$
Charge Cut-off Voltage	57.6
	Or single $\geq 3.63$
Max. Charge/Discharge Current(A)	200/200
Discharge Cut-off Voltage(V)	SOC $\leq 5\%$
	Overall voltage $\leq 46.4$
	Or single $\leq 2.9$
Rated Battery Capacity(Ah)	280Ah
Rated Battery Energy(kWh)	14.34
General Properties	
Dimensions [W*L*H] $\pm 1.2mm$	544*315*888.5
Battery Pack Weight(kg) $\pm 3kg$	133
The rated capacity indicates the current discharged by charging with 0.5C current to the cutoff under the condition of 25+5°C, and then discharging with 0.5c to the cutoff state after standing for 30min.	

# Combiners



Combiner  
1 string  
1 output



Combiner  
2 string  
1 output



Combiner  
3 string  
3 output



Combiner  
2 string  
2 output



Combiner  
5 in 1 output  
three phase

# Structure

## ALUMINUM PROFILES



# Structure

## STEEL INSTALLATION PROFILE ACCESSORIES



Aluminum Middle Clamp  
(Cable Tray Type)



Aluminum Side Clamp  
(Cable Tray Type)



Side Clamp  
(With Nuts)



Middle Clamp  
(With Nuts)



Base Support G



Base Support U



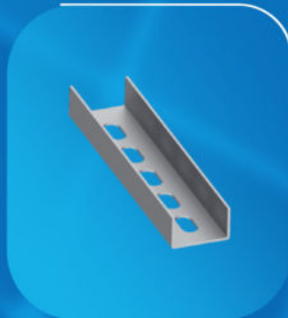
Base Support C



Z Eject Jf3 Screw



Bralo Rivet



Connection Coupler  
25x45 cm  
Without side holes



Connection Coupler  
40x70 cm  
Without side holes



Profile Support  
45x90x45



# Structure

## CONNECTION ELEMENTS & ACCESSORIES



Front seat



Installation Clip



Side Kit



Clamp (Side)



Clamp (Middle)



Clamp (Side)



Clamp (Middle)



# Cable

## VATAN

Solar Cable - 6mm



H1Z2Z2-K



Structure

Electrolitic Tinned  
flexible Conductor

LSZH-FR Cross-Linked  
Compound

LSZH-FR Cross-Linked  
Compound

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## Technical Features

Cross Section	Max.Outer Diameter	Current Carrying Capacity	Max. DC Resistance	Nom. Weigh	Delivery Length
mm <sup>2</sup>	mm	A	Ohm/km (20°C)	kg/km	mt
1,50	5,40	30	13,70	38,20	1000
2,50	5,90	41	8,21	50,80	1000
4,00	6,60	55	5,09	67,40	1000
6,00	7,40	70	3,39	90,20	1000
10,00	8,80	98	1,95	135,20	1000
16,00	10,10	132	1,24	205,10	1000
25,00	12,50	176	0,795	309,00	1000
35,00	14,00	218	0,565	416,40	1000
50,00	16,30	276	0,393	571,40	1000
70,00	18,70	347	0,277	810,60	1000
95,00	20,80	416	0,21	1001,70	1000
120,00	22,80	488	0,164	1274,90	1000
150,00	25,50	566	0,132	1674,10	1000
185,00	28,50	644	0,108	1987,10	1000
240,00	32,10	775	0,0817	2699,30	1000

# Solar Panel Cleaner

## KARDEN

### KD700



High Efficiency: Effectively removes oils, dust, and pollen

Power Boost: Enhances light absorption and energy yield

Eco-Friendly: Fully biodegradable and safe formula

Surface Safe: Deep cleans without residues or scratches

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SOLAR



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