



Goosun Energy Construction Group Co., Ltd.

GC-132M 210

650–670 Watt

HALF-CELLMONO PERC



Multi-bus solar cell

The special circuit design reduces the hot spot temperature greatly



Crack resistance

Excellent micro-crack resistance, more uniform internal stress



PID resistant

Excellent Pid tolerance at 96 hours (85 ° C/85%)



The efficiency of the module is 21.54%

Semi-battery structure with low resistance characteristics has a higher lifetime power generation capacity



-0.24% C temperature coefficient

The power generation performance of the module is more stable, and the electrical performance is better under the high temperature environment



SMBB technology

Shorter current transfer distance, less resistance loss, higher battery efficiency



Maximum 90% two-sided rate

Natural double-sided symmetrical structure, the module back-side power generation gain is higher



Butyl rubber seal

Stronger water resistance, better air tightness, longer service life of components



Higher reliability

Industry-leading process and power quality assurance to ensure long-term high-performance components



Applicable to centralized power stations

Effectively reduce system BOS cost, LCOE lower



认证证书

EC61215、IEC61730、CE、CQC

·1S08001:2015 Quality Management System

·18014001:2015 Environmental Management System

·1S045001:2018 Occupational Health and safety management





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Electrical specifications

Module type	GC-132M-650		GC-132M-655		GC-132M-660		GC-132M-665		GC-132M-670	
Test conditions	STC NOCT									
Maximum power(Pmax)	650	491	655	495	660	499	665	503	670	510
Open-circuit voltage(Voc)	45.58	41.1	45.78	42.48	45.98	42.67	46.18	42.86	46.38	43.04
Short Circuit Current(Isc/A)	18.16	14.89	18.21	14.93	18.26	14.97	18.31	15.01	18.36	15.06
Maximum power voltage(Vmpp)	37.61	34.86	37.81	35.05	38.01	35.24	38.21	35.42	38.41	35.61
Current maximum power	17.28	14.09	17.32	14.13	17.36	14.16	17.40	14.19	17.44	14.23
Module efficiency(%)	20.92%		21.09%		21.25%		21.41%		21.57%	
Power tolerance(W)	0~+5									

STC: light intensity 1000W/m, battery temperature 25°C, air quality 5.
Test conditions: irradiance 800W/m, ambient temperature 20°C, wind speed 1m/s.

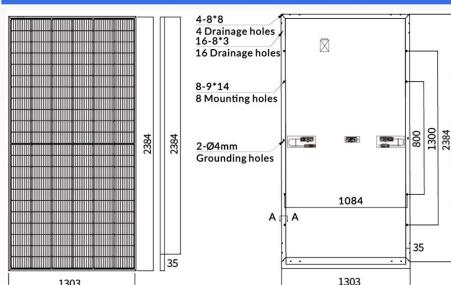
Mechanical specifications

Battery type	MONO
Number of cells	132(6*22)
Size	2384*1303*35mm
Weight	34.0kg
Glass	3.2 mm low toughened glass
Framework	Anodic aluminum oxide alloy
Junction Box	IP683 diodes
Output Cable	4mm ² length 300mm or custom made
The connector type	MC4 compatible

Packaging configuration

Per Pallet	31pcs
Per 40'HQ Container	558 pcs

Engineering drawings



Temperature characteristics

NOCT temperature	43°C±2°C
Temperature coefficient (PMAX)	-0.340%/°C
Temperature coefficient (VOC)	-0.250%/°C
Temperature coefficient (ISC)	0.040%/°C

Maximum rated parameters

Maximum system voltage (IEC)	1000/1500VDC
Snow/wind	5400Pa/2400Pa
Operating temperature	-40°C~+85°C
Maximum series fuse rating	25A

L-V curve

I-VCURVE(660W) Current-Voltage curves (660W)

