GUO CHENG

Goosun Energy Construction Group Co., Ltd.

GC-144M 182

540-560 Watt

HALF-CELL MONO PERC Double Glass

Multi-bus solar cell
The special circuit design reduces the hot spot temperature greatly

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

Crack resistance
Excellent micro-crack resistance, more uniform internal stress

The efficiency of the module is 21.70%
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

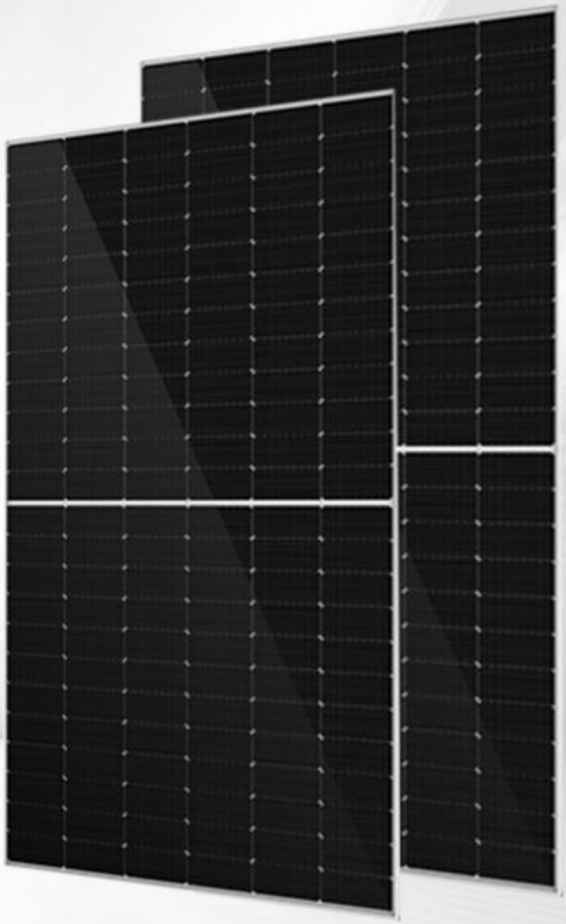
SMBB technology
SMBB Shorter current transfer distance, less resistance loss, higher battery efficiency

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-144M-540HBD		GC-144M-545HBD		GC-144M-550HBD		GC-144M-555HBD		GC-144M-560HBD	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power(Pmax)	540	403.6	545	407.4	550	411.1	555	414.8	560	418.3
Open-circuit voltage(Voc)	49.50	46.54	49.65	46.68	49.80	46.82	49.95	46.97	50.1	47.11
Short Circuit Current(Isc/A)	13.85	11.17	13.92	11.23	13.99	11.29	14.05	11.34	14.10	11.40
Maximum power voltage(Vmpp)	41.65	38.86	41.80	39.0	41.95	39.14	42.10	39.28	42.25	39.42
Current maximum power	12.97	10.39	13.04	10.45	13.12	10.51	13.19	10.56	13.27	10.62
Module efficiency(%)	20.90%		21.10%		21.30%		21.50%		21.70%	
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	144(6*24)
Size	2278*1133*30mm
Weight	31.5kg
Glass	2.0mm semi tempered glass
windshield	20mm, high permeability AR coated heat-strengthened glass
frame	Anodized aluminum alloy
Junction box	IP68 3 diodes
Output cable	4mm^2 Length 300mm or customized
Connector type	MC4 compatible

Temperature characteristics

NOCT temperature	45°C±2°C
Temperature coefficient (PMAX)	-0.360%/°C
Temperature coefficient (VOC)	-0.280%/°C
Temperature coefficient (ISC)	0.050%/°C

Maximum rated parameters

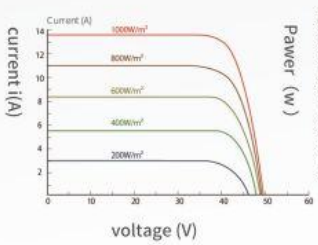
Maximum system voltage (IEC)	1500VDC(IEC)
Snow/wind	5400Pa/2400Pa
Operating temperature	-40°C~+85°C
Maximum series fuse rating	30A

Packaging configuration

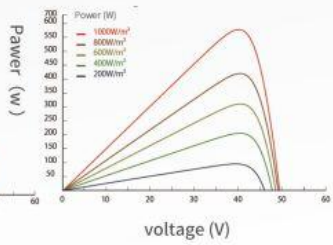
Per Pallet	36pcs
Per 40'HQ Container	720 pcs

L–V curve

I-VCURVE(550W)



Current-Voltage curves (550w)



Engineering drawings