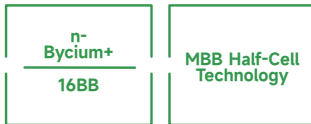


640W GR66N640W

N-Type Double Glass Bifacial Modules



Premium Cells



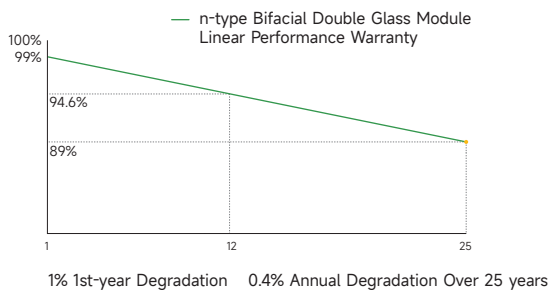
Premium Modules

Superior energy yield for lower LCOE

High-efficiency with advanced n-type Bycium+ cell technology

Higher power output with High-density module design

Excellent reliability, certified by authoritative institutions



12 12-year product warranty

25 25-year linear power output warranty

Comprehensive Certificates

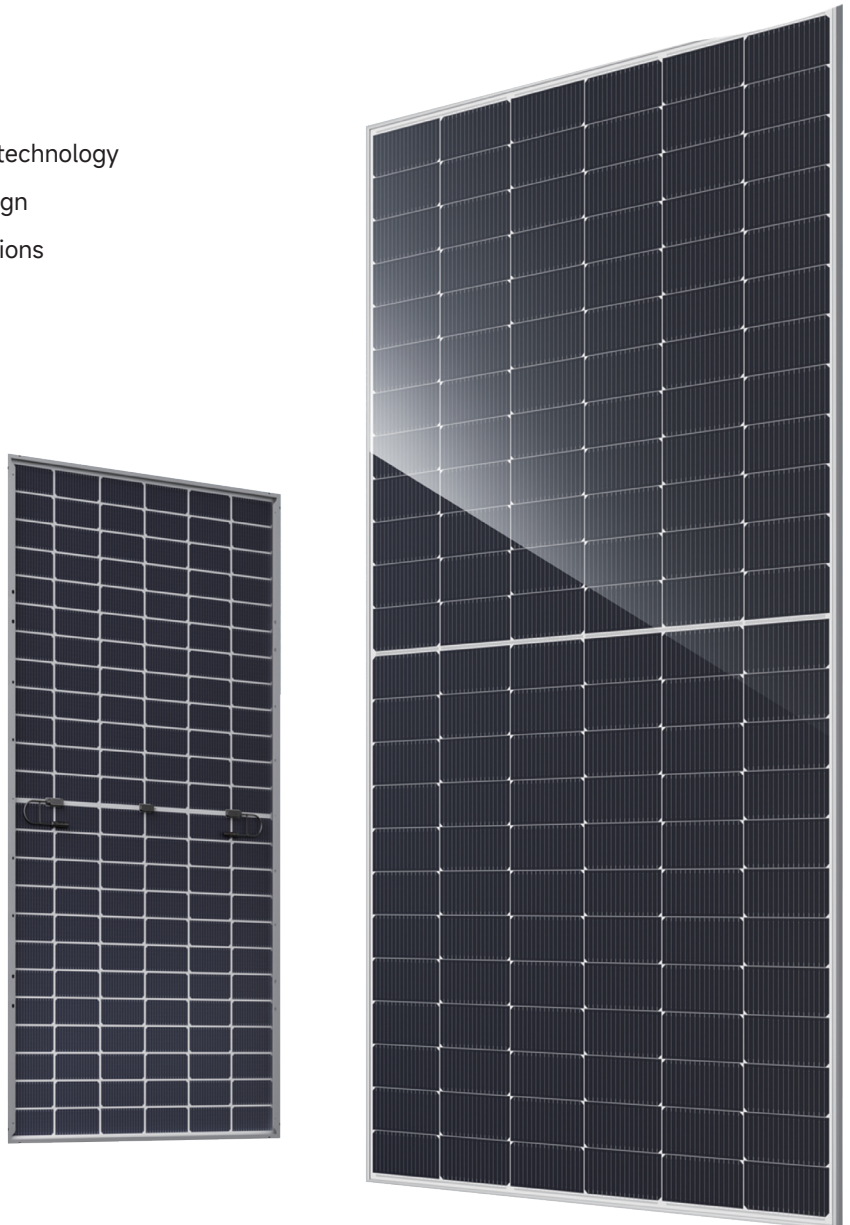
IEC 61215, IEC 61730, UL61215, UL 61730

ISO 9001: 2015 Quality management systems

ISO 14001: 2015 Environmental management systems

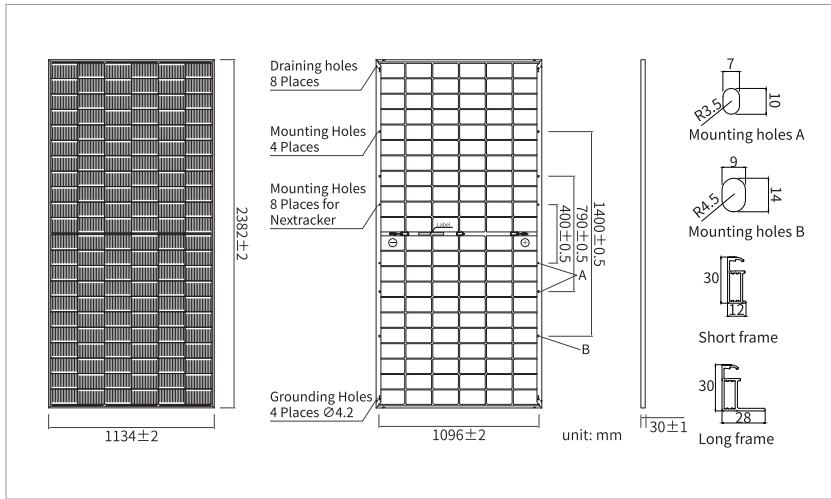
ISO 45001: 2018 Occupational health and safety management systems

IEC 62941: 2019 Terrestrial photovoltaic(PV)modules-Quality system for PV module manufacturing



640W GR66N640W

N-Type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	32.8kg
Dimensions	2382±2mm × 1134±2mm × 30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	132(6×22)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1400mm(+)/1400mm(-)
Frame	Anodized Aluminium Alloy
Front Glass	2.0mm, Anti-reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

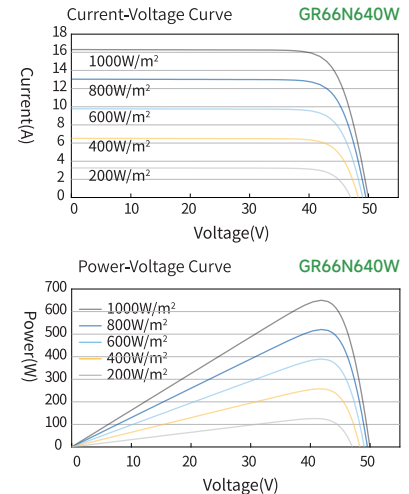
Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	GR66N 615W	GR66N 620W	GR66N 625W	GR66N 630W	GR66N 635W	GR66N 640W
Rated Maximum Power(P _{max}) [W]	615	620	625	630	635	640
Open Circuit Voltage (V _{oc}) [V]	48.30	48.50	48.70	48.90	49.10	49.39
Maximum Power Voltage(V _{mp}) [V]	39.96	40.21	40.45	40.70	40.94	41.20
Short Circuit Current(I _{sc}) [A]	16.10	16.13	16.15	16.18	16.21	16.24
Maximum Power Current(I _{mp}) [A]	15.39	15.42	15.45	15.48	15.51	15.54
Module Efficiency [%]	22.8	23.0	23.1	23.3	23.5	23.7
Power Tolerance	0~+3%					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.250%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.290%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

CHARACTERISTICS



ELECTRICAL PARAMETERS AT BNPI

TYPE	GR66N 615W	GR66N 620W	GR66N 625W	GR66N 630W	GR66N 635W	GR66N 640W
Rated Max Power(P _{max}) [W]	675	680	685	695	701	707
Open Circuit Voltage(V _{oc}) [V]	48.30	48.50	48.70	48.90	49.10	49.39
Max Power Voltage(V _{mp}) [V]	39.96	40.21	40.45	40.70	40.94	41.20
Short Circuit Current(I _{sc}) [A]	17.68	17.70	17.71	17.85	17.90	17.93
Max Power Current(I _{mp}) [A]	16.90	16.92	16.94	17.08	17.12	17.16
BNPI	Front Irradiance 1000W/m ² , Rear Irradiance 135W/m ² , cell temperature 25°C, AM1.5G					

Different markets have varying certification requirements—please consult your Grun solar sales representative for details. For special installation conditions, contact Grun solar's technical support team in advance.

OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature*	-40°C~+70°C
Maximum Series Fuse Rating	35A
Maximum Static Load, Front**	5400Pa(112 lb/ft ²)
Maximum Static Load, Back**	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

*PV module 98th percentile operating temperature : 70°C



Headquarters: 13th Floor, Building 15, Luyang Big Data Industrial Park, Hefei City, Anhui Province, China
 Web: www.grunsolar.com Email: info@grunsolar.com
 Tel/ WhatsApp / WeChat: 0086-18956989152/ 0086-15055979752

Specifications subject to technical changes and tests. Grunsolar reserves the right of final interpretation.

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