

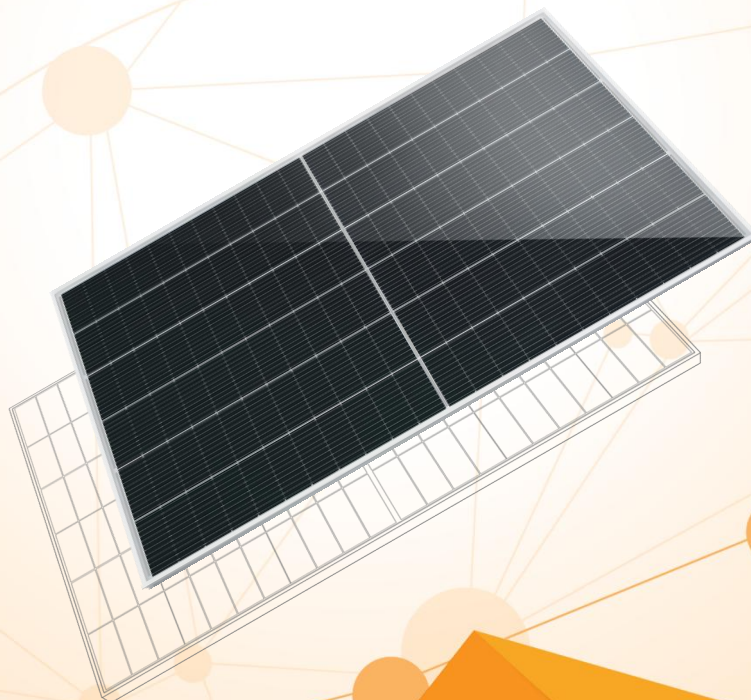


Ningbo Zhongyi New Energy Co., Ltd.
Ningbo Reneled New Energy Co., Ltd.

HJT Mono-crystalline PV Module

210 Cell-20BB | Non-destructive Cut | Bifacial

Module Type: ☐ ZYxxxG12HNHB-120 | ☒ ZYxxxG12HNHB-132



High Power High Compatibility

Outstanding performance in weak-light conditions, lower operating temperature

Different types of modules are suitable for various application scenarios



Product
Warranty



Performance
Warranty (Monofacial)



Performance
Warranty (Bifacial)



www.renepv.com

Mono-crystalline Solar PV Modules

www.renepv.com

M210-66N
HJT

680W

ZY680G12HNHB-132

21.9%

Module efficiency

HJT Mono-crystalline Bifacial Module

Electrical Specifications

Model	ZY680G12HNHB-132		
STC: AM1.5 Temperature 25°C Irradiance 1000 W/m ²	Peak Power(Pmax)±3%	(W)	680
	Power Tolerance	(W)	0~+5
	Max.Power Voltage(Vmp)	(V)	41.30
	Max.Power Current(Imp)	(A)	16.46
	Open-circuit Voltage(Voc)±3%	(V)	49.29
NMOT: AM1.5 Temperature 20°C Wind speed 1m/s Irradiance 800 W/m ²	Short-circuit Current(Isc)+3%	(A)	17.45
	Peak Power(Pmax)±3%	(W)	518.0
	Max.Power Voltage(Vmp)	(V)	39.18
	Max.Power Current(Imp)	(A)	13.22
	Open-circuit Voltage(Voc)	(V)	46.86
Operating Temperature	Short-circuit Current(Isc)	(A)	13.91
		(°C)	-40~+85
Max. Series Fuse Rating	(A)	35	
Max. System Voltage(DC)	(V)	1500 (IEC)	

Mechanical Specifications

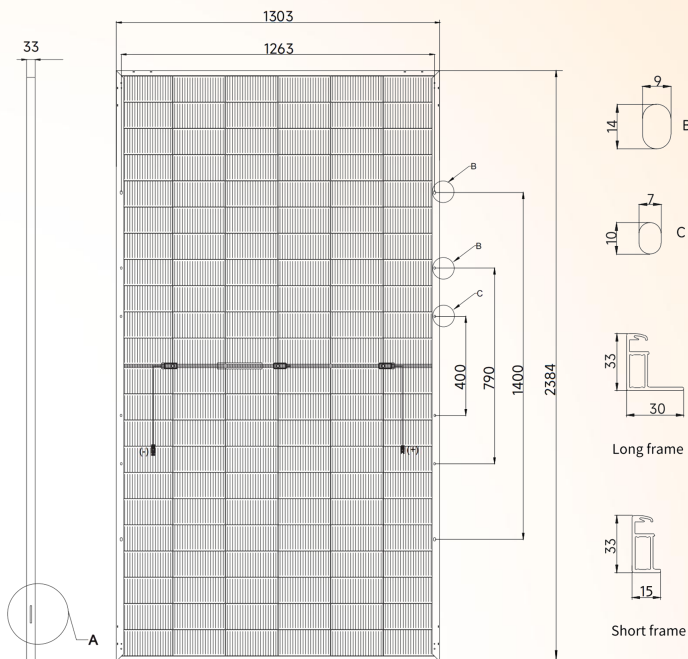
Solar Cells	N-type HJT-Mono-210*105mm
Arrangement	Type-6*11*2
Front Glass	2.0mm tempered glass
Back Glass	2.0mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Cables	4.0mm ² photovoltaic cables
Connectors	MC4 compatible/IP68
Maximum Load Capacity	Snow-5400Pa/Wind-2400Pa
Safety Rate	Class II (IEC)
Fire Rate	Class C (TUV)
Bifaciality	90±5%

Packing Configuration

Package Weight & Size	1240Kg/pallet & 1320*1125*2520mm		
20'GP Container	/	/	/
40'HQ Container	33 pcs/pallet	18 pallets/40'HQ	594 pcs
13.5m Land Truck	33 pcs/pallet	20 pallets/truck	660 pcs

Dimensions of PV Module

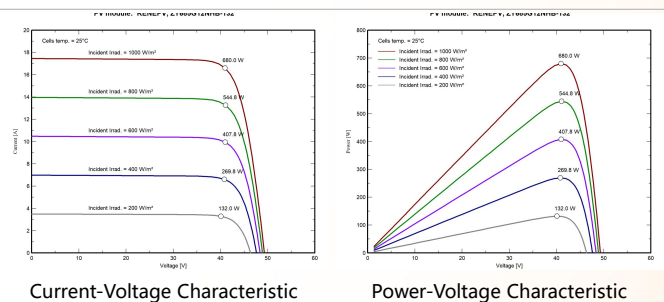
Module Dimensions	2384(±2)*1303(±2)*33mm
Module Weight	37.2 kg(±3%)



Temperature Characteristics

Temperature Coefficient (Pmax)	δ[%/°C]	-0.24
Temperature Coefficient (Voc)	β[%/°C]	-0.22
Temperature Coefficient (Isc)	α[%/°C]	+0.04
Nominal Operating Cell Temperature	NMOT	44°C±2°C

I-V & P-V Curves



Current-Voltage Characteristic

Power-Voltage Characteristic

BSTC

Maximum Power(Pmax)	(W)	765
Max.Power Voltage(Vmp)	(V)	41.31
Max.Power Current(Imp)	(A)	18.52
Open-circuit Voltage(Voc)	(V)	49.29
Short-circuit Current(Isc)	(A)	19.55

BSTC: AM1.5, 1000W/m², 135W/m², 25°C



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