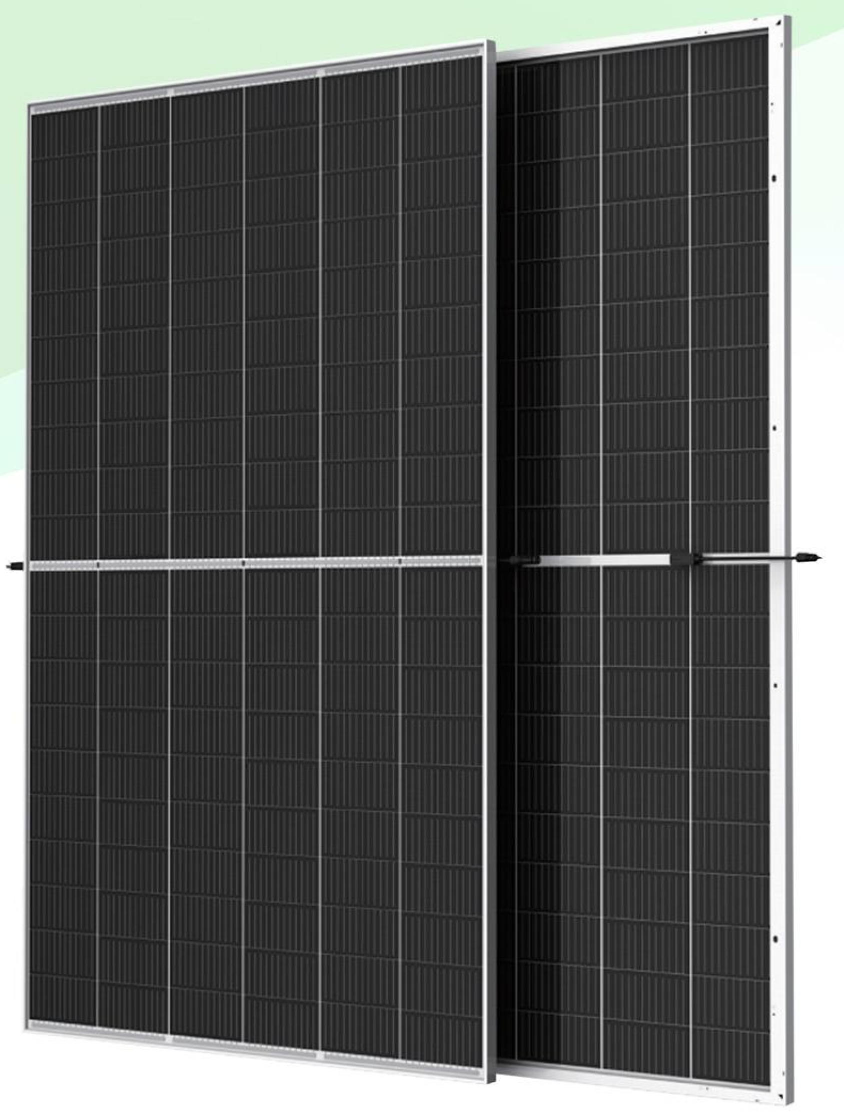
FY SOLAR

TOPCON TECHNOLOGY

FY 210-120NDG

BIFACIAL MODULE WITH DUAL GLASS

620W-645W



645W	22.80%	0~+5W
Maximum Power Output	Maximum Module Efficiency	Power Output Tolerance

Higher customer value
Ultra-high component power: High series power and low voltage design

Maximum power increased to 645W
Multi-main gate (MBB) technology is applied to effectively improve the optical utilization and reduce the internal current loss

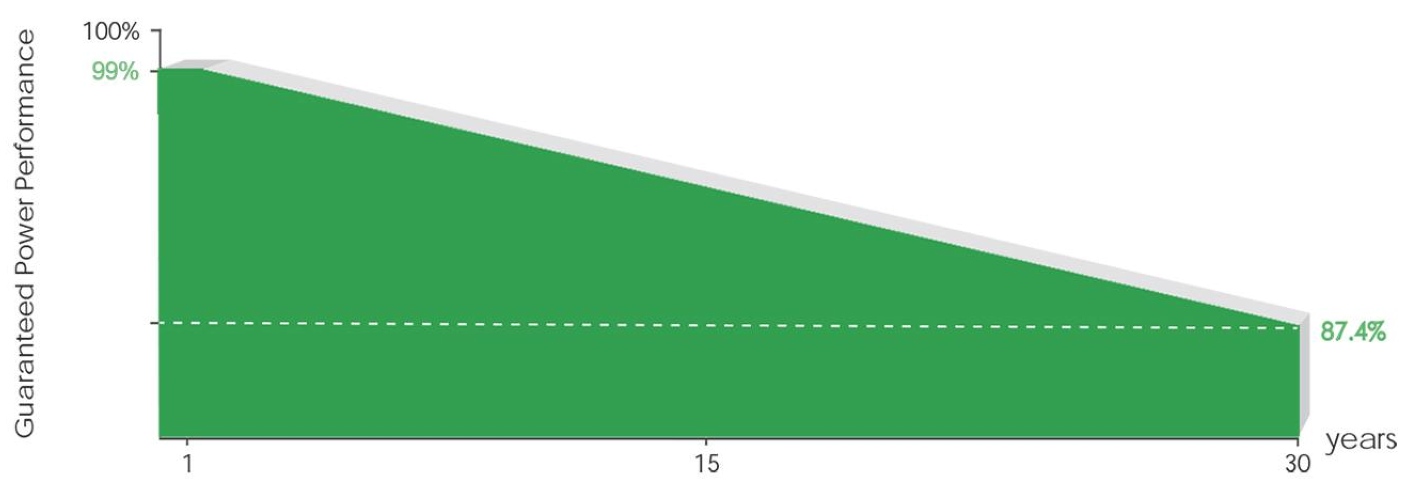
High reliability
Resistant to harsh environments such as salt spray, ammonia, dust, high temperature and high humidity areas

Enhanced Mechanical Load
2400 Pa
5400 Pa

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

High electrical performance
Double side power generation, depending on the installation environment, the back power generation can be increased by up to 30%

LINEAR PERFORMANCE WARRANTY



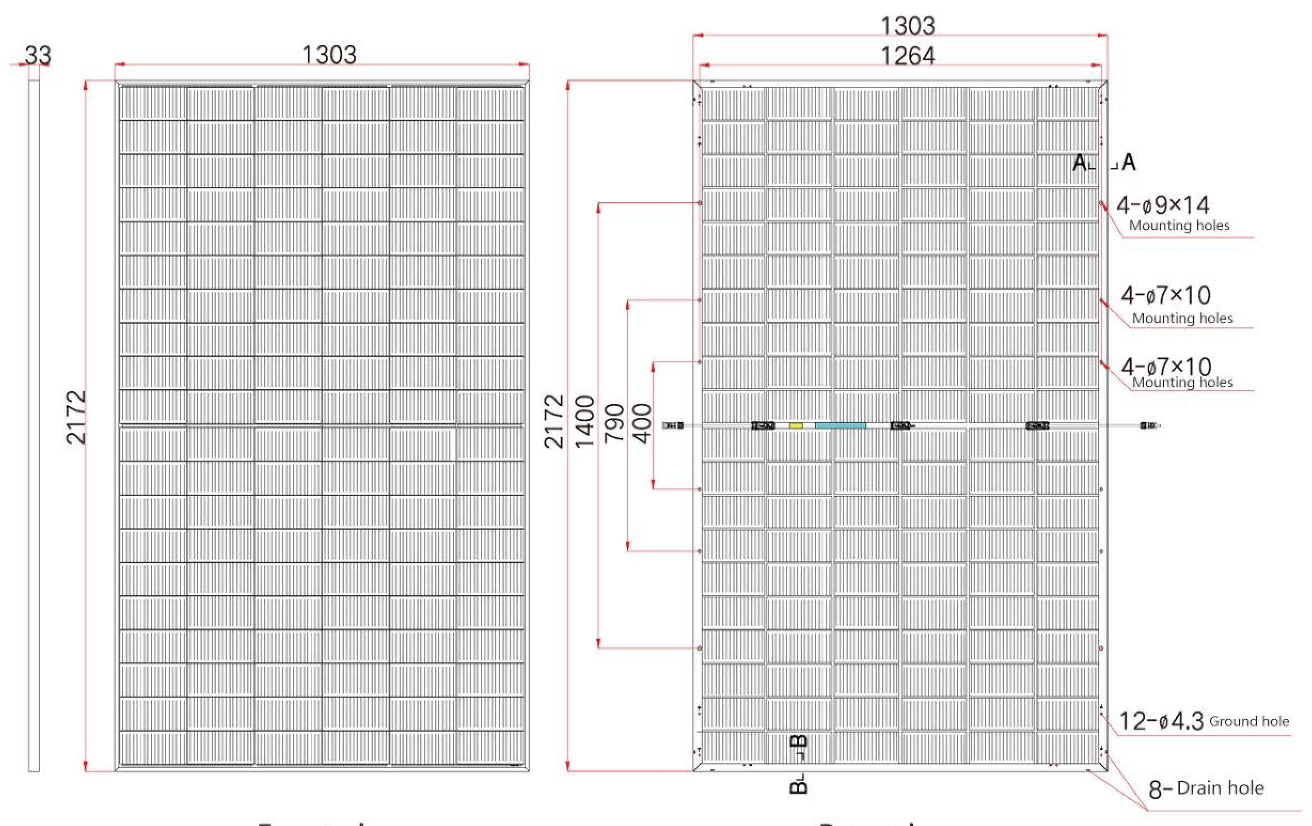
12 Years Product Material & Workmanship

30 Years Linear Performance Warranty

SPECIFICATIONS

Module Type	FY-120-620NDG		FY-120-625NDG		FY-120-630NDG		FY-120-635NDG		FY-120-640NDG		FY-120-645NDG	
	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Maximum Power (Pmax)	620Wp	473Wp	625Wp	478.4Wp	630Wp	482.2Wp	635Wp	485.5Wp	640Wp	489.5Wp	645Wp	493.3Wp
Maximum Power Voltage (Vmp)	36.10V	33.90V	36.40V	34.30V	36.60V	34.50V	36.80V	34.70V	37.00V	35.00V	37.20V	35.20V
Maximum Power Current (Imp)	17.16 A	13.94A	17.19 A	13.95A	17.22 A	13.96A	17.26 A	13.98A	17.30A	14.00A	17.34V	14.03A
Open-circuit Voltage (Voc)	43.20V	40.90V	43.50V	41.20V	43.90V	41.60V	44.20V	41.90V	44.50V	42.10V	44.80V	42.40V
Short-circuit Current (Isc)	18.18 A	14.65A	18.21 A	14.68A	18.24A	14.70A	18.27 A	14.73A	18.30 A	14.75A	18.33 A	14.77V
Module Efficiency STc (%)	21.90%		22.10%		22.30%		22.40%		22.60%		22.80%	
Operating Temperature(℃)	-40℃~+85℃											
Maximum system voltage	1500VDC(IEC)											
Maximum series fuse rating	35A											
Power tolerance	0~+5℃											
Temperature coefficients of Pmax	-0.29%/℃											
Temperature coefficients of Voc	-0.24%/℃											
Temperature coefficients of Isc	0.04%/℃											
Nominal operating cell temperature (NOCT)	43±2℃											

Engineering Drawings



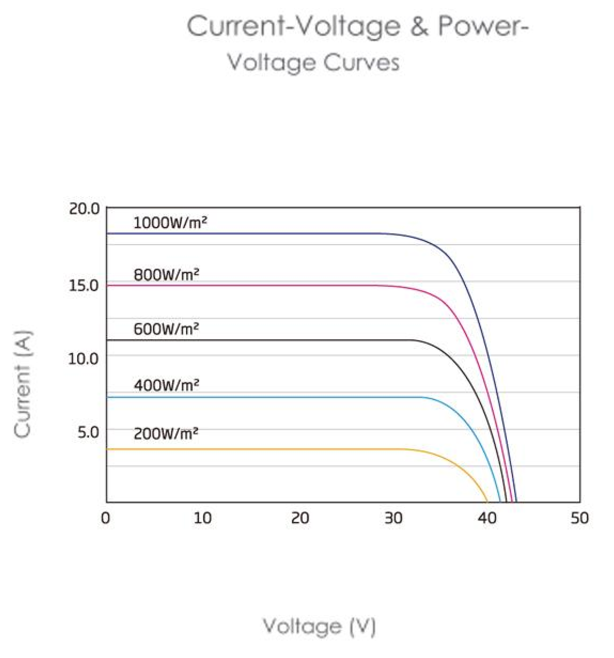
Front view

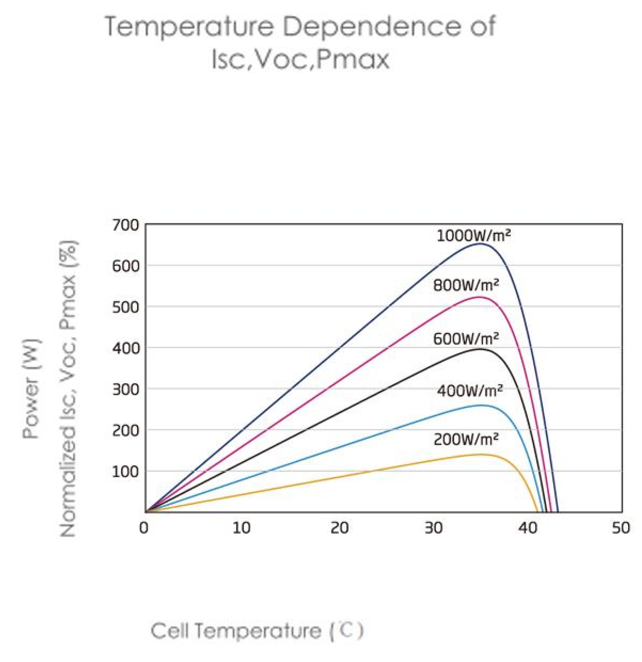
Rear view

Packaging Configuration

33pcs/pallets, 351pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence





Mechanical Characteristics

Cell Type	N type Mono-crystalline
NO.of cells	120 cell
Dimensions	2172×1303×33mm
Weight	34.9 kg
Output Cables	TUV 1X4.0mm²
Junction Box	IP68Rated