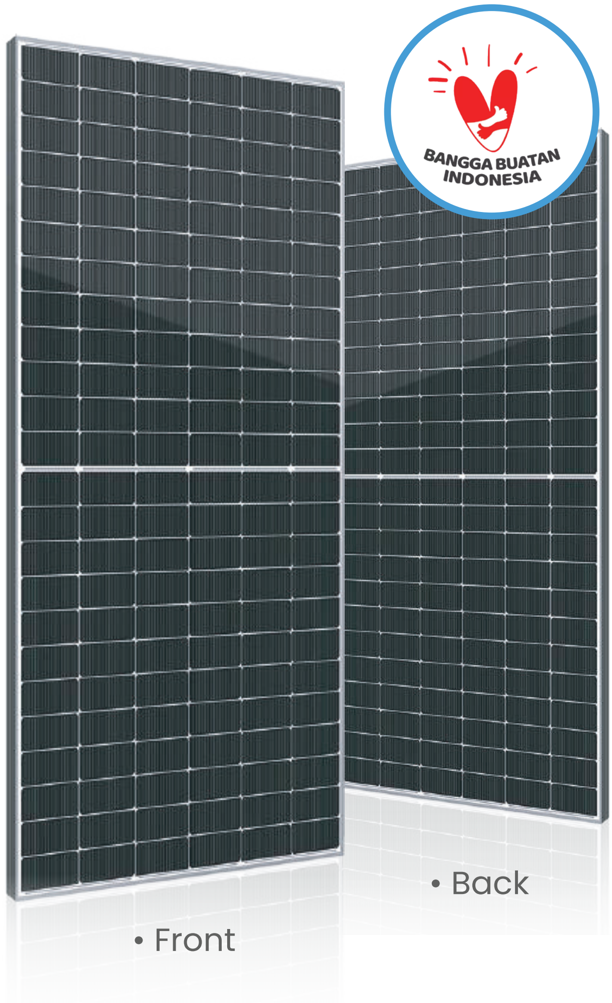
ISGEN

PT Indonesia Solar Global

Subsidiary of
PT Karyagraha Nusantara

ISGG12 HCTC710DG

Bifacial Module | Double Glass
N-Type, 18BB TOPcon



30 years

Warranty for Linear Power Perfomance*

12 years

Warranty for Quality Assurance*

Year 1 minimum warranted output 99%
Maximum annual degradation 0.4%

High Power Output
710W

High Reliability
Multi-busbar half-cell module improved the modules load resistance

Lower BoS Cost & LCOE

Positive Output Power Tolerance
0~+5W

Outstanding Low Light Perfomance

5-25% Additional Power Generation
Depands on Surface Area

High Efficiency
>22%

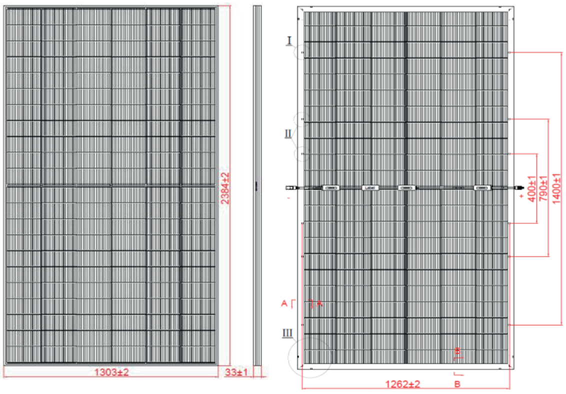
Better Temperature Coefficient
TOPCon - 0.30%
PERC - 0.35%

2 EL
Dual Stage 100% EL-Inspection

Certificates:

ISO 9001: 2015 | ISO 140001: 2015 | ISO 45001: 2018
SMK3 | Local Content (TKDN) | SNI 61215: 2016
IEC 61215 | IEC 61730 | IEC 61701 | IEC 62804 | IEC 62716

TECHNICAL DRAWINGS



MECHANICAL SPECIFICATIONS

Solar Cell	Mono N-Type 210mm
No. of Cells	132 (2 X [6 X 11])
Dimensions	2384 X 1303 X 33mm
Weight	39kg
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	250mm(-), 450mm(+) length, 4mm^2
Connector	MC4 compatible
Front Cover	Anti-reflective Coating Semi-tempered Glass 2.0mm
Back Cover	Semi-tempered Glass 2.0mm

PACKING CONFIGURATION

Logistics Car	Tronton Threeway	40HQ Container
Modules per Pallet	33	33
Pallet per Car	16	18
Modules per Car	528	594

ELECTRICAL CHARACTERISTICS

	FRONT STC	FRONT NMOT	BACK STC
Maximum Power (Pmax)[W]	710	537	568
Power at Maximum Power (Vmp)[V]	40.90	38.20	40.38
Current at Maximum Power (Imp)[A]	17.37	14.06	14.06
Open-circuit Voltage (Voc)[V]	48.45	45.70	48.28
Short-circuit Current (Isc)[A]	18.42	14.99	14.99
Power Tolerance [W]		0 - 5	
Module Efficiency [%]		22.86	

**STC : Irradiance 1000 W/m2, Ambient Temperature 25 ^{0}C, AM 1.5*

**NMOT : Irradiance 800 W/m2, Ambient Temperature 20 ^{0}C, AM 1.5, Wind Speed 1m/s*

BACK SIDE POWER GAIN

Power Gain	5%	15%	25%
Maximum Power (Pmax)[W]	746	816	887
Power at Maximum Power (Vmp)[V]	40.90	40.90	40.90
Current at Maximum Power (Imp)[A]	18.24	19.95	21.69
Open-circuit Voltage (Voc)[V]	48.45	48.45	48.45
Short-circuit Current (Isc)[A]	19.06	20.85	22.66
Module Efficiency [%]	24.02	26.27	28.55

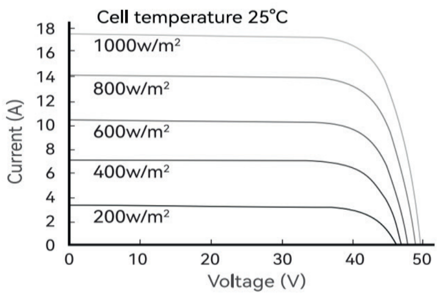
OPERATING PARAMETERS

Max System Voltage	1500 VDC
Operating Temperature	-40^{0}C ~ +85^{0}C
Max. Fuse Rating	35A
Frontside Max. Loading	5400Pa
Backside Max. Loading	2400Pa

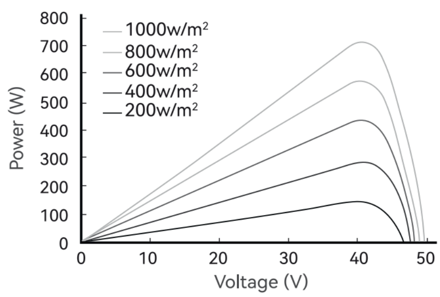
TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature (NMOT)	45 ± 2 ^{0}C
Temperature Coefficient of Pmax	-0.30%/^{0}C
Temperature Coefficient of Voc	-0.26%/^{0}C
Temperature Coefficient of Isc	0.05%/^{0}C

I-V CURVE



P-V CURVE



Specifications are subject to change without further notifications