

RUNERGY

Preliminary Version

TIER 1 HY-DH120H10

625-645W

22.8%

Max. Efficiency

HJT

Bifacial & Dual Glass

120 Pieces

Half-Cell



High Conversion Efficiency

Module efficiency up to 22.8% based on advanced cell technology



Excellent Energy Yield

More power output in field operation due to better thermal behaviors, weak-light performance and bifaciality



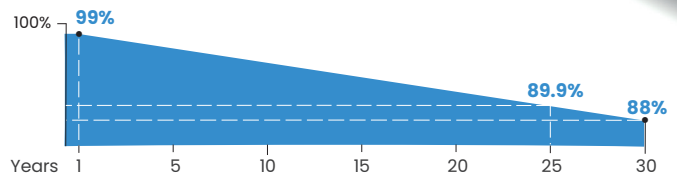
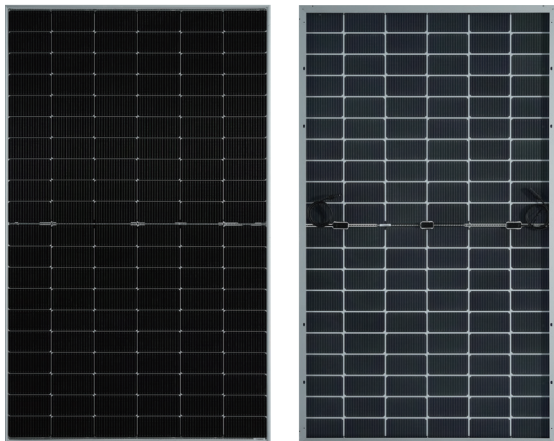
Outstanding Anti-degradation

Unsusceptible to LID, LeTID and less annual degradation due to special characteristics of HJT



Quality Guarantee

High module quality ensures long-term reliability



Runergy HJT Dual Glass Product Performance Warranty

- **12 Years** warranty for materials and workmanship
- **30 Years** warranty for extra linear power output
- 1st year < **1%**, annual degradation < **0.38%**

IEC61215 / IEC61730 / UL61730 / IEC61701 / IEC62716 / IEC60068 / ISO9001 / ISO14001 / ISO45001



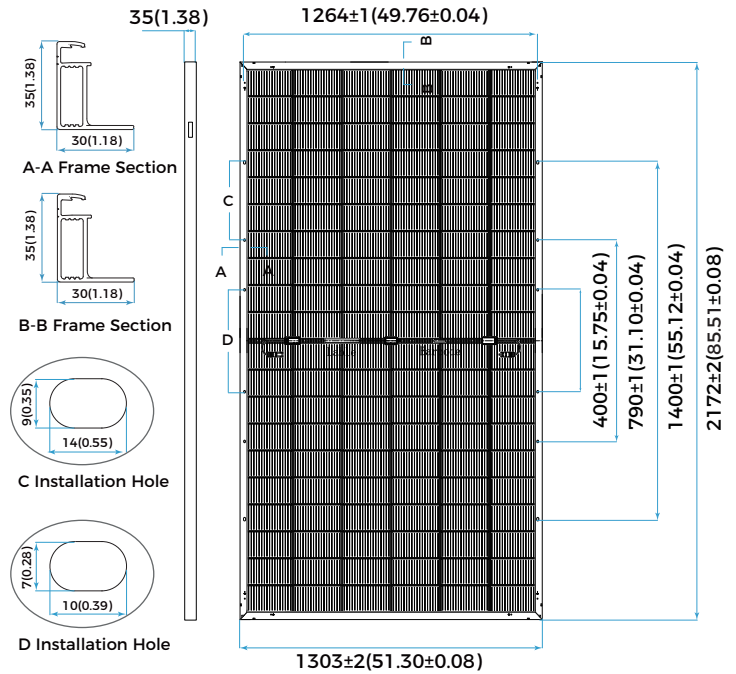
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Mechanical Parameters

Solar Cell	Mono HJT 210mm
No. of Cells	120 (6 × 20)
Dimensions	2172 × 1303 × 35mm(85.51 × 51.30 × 1.38in.)
Weight	35.3kg(77.82lbs)
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	4mm ² (IEC), 12 AWG(UL) +400/-200mm (+15.75/-7.87in.) or customized
Connector	RY01 or similar
Front Cover	2.0mm (0.079in.)semi-tempered AR glass
Back Cover	2.0mm (0.079in.)semi-tempered glass
Container	31 pcs/Pallet, 558 pcs/40' HQ

Operating Parameters

Max. System Voltage	DC 1500V (IEC/UL)
Operating Temperature	-40 °C ~ +85 °C(-40°F ~ +185°F)
Max. Fuse Rating	35A
Frontside Max. Loading	5400Pa(112lb/ft ²)
Backside Max. Loading	2400Pa(50lb/ft ²)
Bifaciality	85%±10%
Fire Resistance	IEC Class A



Electrical Characteristics - STC

Irradiance 1000 W/m², cell temperature 25 °C, AM1.5, Test uncertainty for Pmax: ±3%

	645	640	635	630	625
Maximum Power at STC (Pmax/W)					
Power Tolerance (W)			0 ~ +5		
Optimum Operating Voltage (Vmp/V)	38.51	38.35	38.19	38.03	37.86
Optimum Operating Current (Imp/A)	16.75	16.69	16.63	16.57	16.51
Open Circuit Voltage (Voc/V)	45.82	45.65	45.48	45.30	45.13
Short Circuit Current (Isc/A)	17.55	17.49	17.43	17.37	17.31
Module Efficiency	22.8%	22.6%	22.4%	22.3%	22.1%

Electrical Characteristics - NMOT

Irradiance 800 W/m², ambient temperature 20 °C, AM1.5, wind speed 1 m/s.

Maximum Power at NMOT (Pmax/W)	496.7	492.8	489.0	485.2	481.3
Optimum Operating Voltage (Vmp/V)	36.94	36.79	36.63	36.48	36.32
Optimum Operating Current (Imp/A)	13.45	13.40	13.35	13.30	13.25
Open Circuit Voltage (Voc/V)	43.95	43.79	43.62	43.45	43.29
Short Circuit Current (Isc/A)	14.14	14.09	14.04	13.99	13.94

Rearside Power Gain (Reference to 645W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	677	742	806
Optimum Operating Voltage (Vmp/V)	38.51	38.61	38.61
Optimum Operating Current (Imp/A)	17.59	19.21	20.88
Open Circuit Voltage (Voc/V)	45.82	45.92	45.92
Short Circuit Current (Isc/A)	18.43	20.14	21.89
Module Efficiency	23.9%	26.2%	28.5%

Temperature Characteristics

Nominal Module Operating Temperature	42 ± 2 °C
Nominal Cell Operating Temperature	45 ± 2 °C
Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	0.04%/°C

