

535~
555W

HY555-B120DDD



N-HYBC , Bi-facial
120-cell, Back-contact
0~+3% positive tolerance

KEY FEATURES



Back-contact

Applying back contact technology , effectively improve optical utilization efficiency , Reduce internal current loss , Obtain higher output power



More Power

Industry leading N-HYBC technology applied to generate ultra-high power up to 555Wp with optimized temperature coefficient and lower working temperature



High Reliability

Strict outsourcing BOM materials quality control and 100% in-house wafer and the HYBC cell performance boost the power warranty to 30 Year



Excellent Low-light Performance

Advanced N-HYBC solarcell technology allows for excellent performance in low-light environments



Highly Strengthened Design

Certified to withstand: 5400Pa snow load and 2400Pa wind load



PID Resistant

Excellent PID resistance performance optimized by unique cell process design and BOM material control



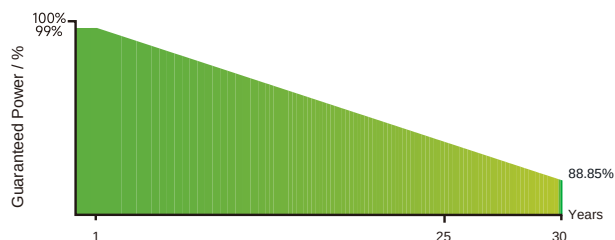
Fire resistance

Class of reaction to Class A

LINEAR PERFORMANCE WARRANTY

25 Year Product Warranty

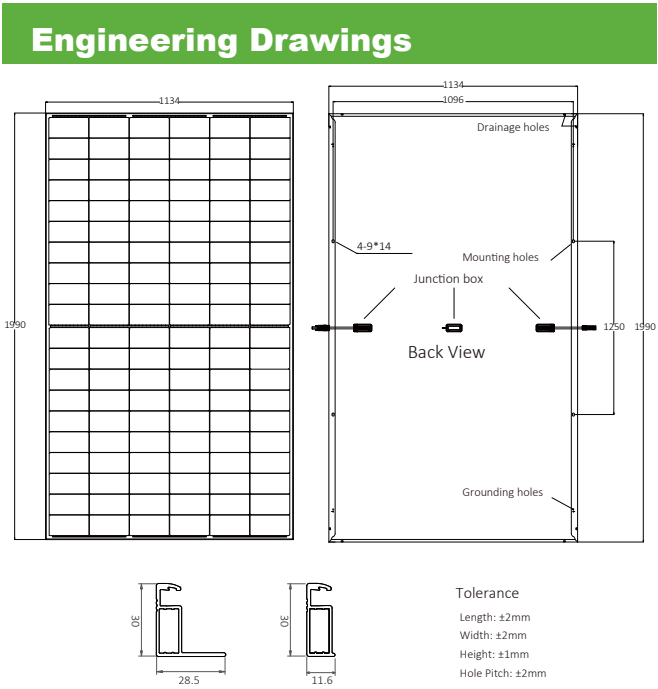
30 Year Linear Power Warranty



IEC 61215 , IEC 61730



HY555-B120DDD



Electrical Characteristics

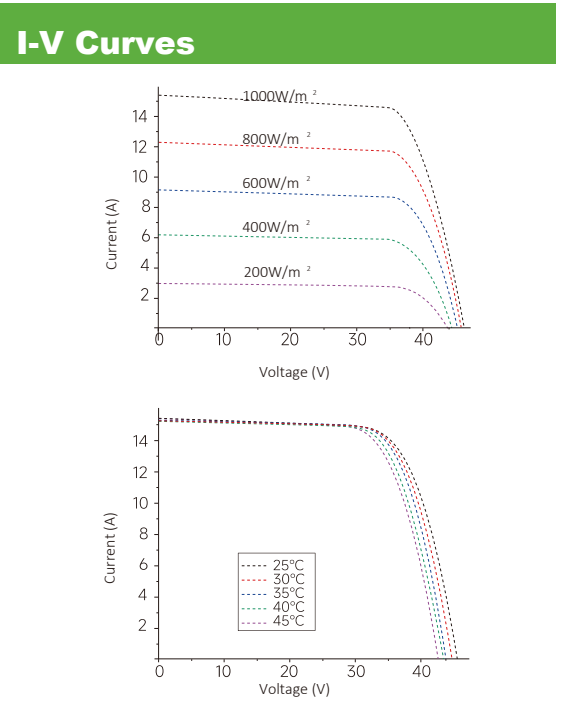
	HY535-B120DDD	HY540-B120DDD	HY545-B120DDD	HY550-B120DDD	HY555-B120DDD
Pmax(W)	535	540	545	550	555
Vmp(V)	37.73	37.82	37.90	37.99	38.07
Imp(A)	14.18	14.28	14.38	14.48	14.58
Voc (V)	45.09	45.19	45.29	45.39	45.49
Isc(A)	15.03	15.13	15.23	15.33	15.43
Module efficiency(%)	23.71	23.93	24.15	24.37	24.59
Maximum system voltage(V)	1500				
Fuse Rating(A)	30				
Temperature coefficient Pmax(%/°C)	-0.26				
Temperature coefficient Isc(%/°C)	0.05				
Temperature coefficient Voc(%/°C)	-0.22				

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

Working Characteristics

	HY535-B120DDD	HY540-B120DDD	HY545-B120DDD	HY550-B120DDD	HY555-B120DDD
Pmax(W)	411	415	419	423	427
Vmp(V)	35.62	35.72	35.82	35.91	36.01
Imp(A)	11.54	11.62	11.70	11.78	11.86
Voc(V)	42.91	42.98	43.06	43.14	43.21
Isc(A)	12.12	12.20	12.28	12.36	12.44
Power tolerance(%)	0~+3				
NOCT(°C)	44±2				

NOCT: Conditions:Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM=1.5



Mechanical Characteristics

Number of cells	120pcs
Size of cell (mm)	182*96
Type of cell	N-Type HYBC
Thickness of glass (mm)	2.0
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	1990*1134*30mm
Weight (kg)	27.5±3%
Cables/connectors	4mm ² , MC4 compatible
Length of Cable	±300mm

Packing Configuration

Pieces per pallet	36
Size of packing (mm)	2020*1120*1250
Weight of packing (kg)	1020
Pieces per container	792
Size of container	40' HQ

Maximum Ratings

Operating Temperature(°C)	-40~85
Operating humidity(%)	5-85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s