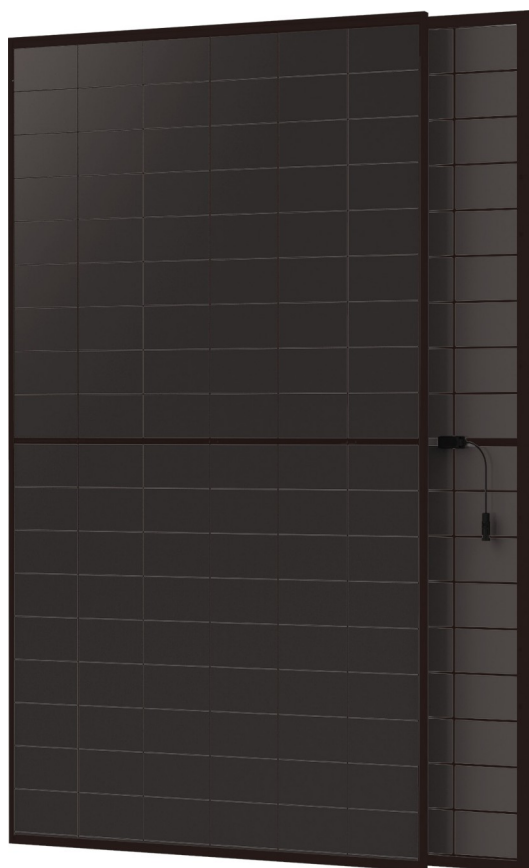


470~
490W

HY490-B108DDD



N-HYBC , Bi-facial
108-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 490Wp 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



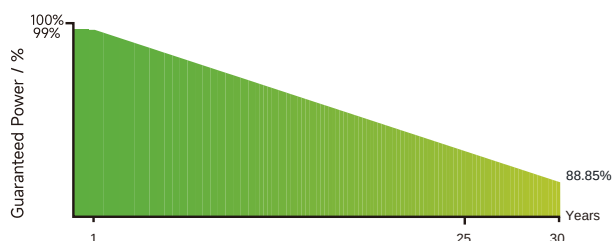
Fire resistance

Class of reaction to Class A

LINEAR PERFORMANCE WARRANTY

25 Year Product Warranty

30 Year Linear Power Warranty

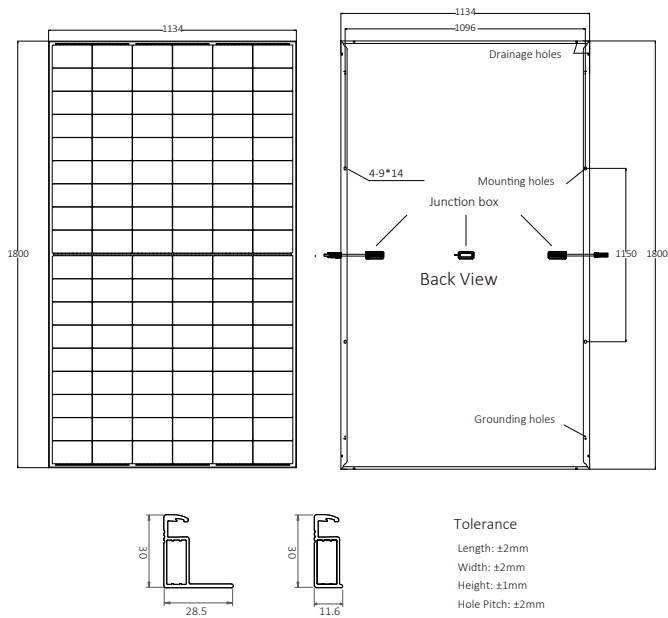


IEC 61215 , IEC 61730

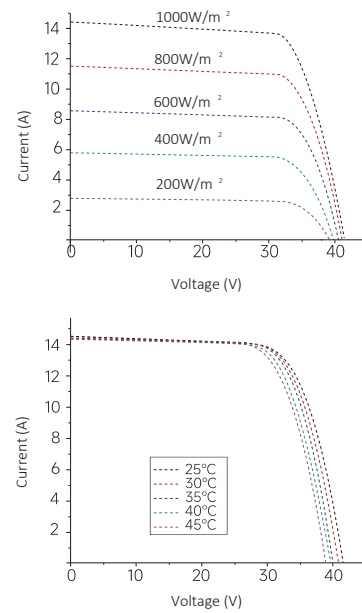


HY490-B108DDD

Engineering Drawings



I-V Curves



Electrical Characteristics

	HY470-B108DDD	HY475-B108DDD	HY480-B108DDD	HY485-B108DDD	HY490-B108DDD
Pmax(W)	470	475	480	485	490
Vmp(V)	35.26	35.37	35.48	35.59	35.69
Imp(A)	13.33	13.43	13.53	13.63	13.73
Voc (V)	41.74	41.98	42.20	42.43	42.63
Isc(A)	14.20	14.24	14.28	14.32	14.36
Module efficiency(%)	23.02	23.27	23.51	23.76	24.00
Maximum system voltage(V)	1500				
Fuse Rating(A)	25				
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

Mechanical Characteristics

Number of cells	108pcs
Size of cell (mm)	182*96
Type of cell	N-IBC
Thickness of glass (mm)	2.0
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	1800*1134*30mm
Weight (kg)	25
Cables/connectors	4mm ² , MC4 compatible
Length of Cable	+300mm/-300mm

Working Characteristics

	HY470-B108DDD	HY475-B108DDD	HY480-B108DDD	HY485-B108DDD	HY490-B108DDD
Pmax(W)	360	364	368	372	376
Vmp(V)	33.15	33.28	33.40	33.52	33.64
Imp(A)	10.86	10.94	11.02	11.10	11.18
Voc(V)	39.71	39.93	40.16	40.36	40.56
Isc(A)	11.46	11.49	11.52	11.56	11.59
Power tolerance(%)	0~+3				
NOCT(°C)	44±2				

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

Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1830*1120*1260
Weight of packing (kg)	931
Pieces per container	864
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