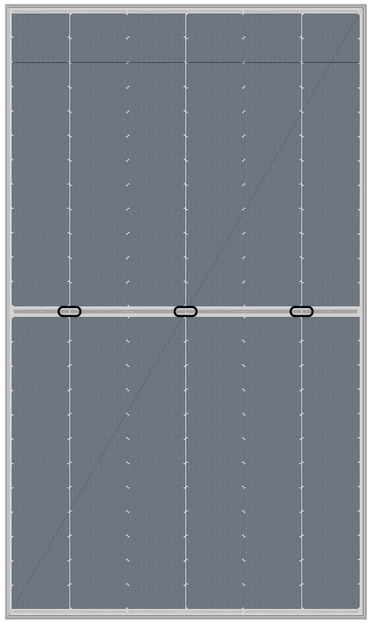
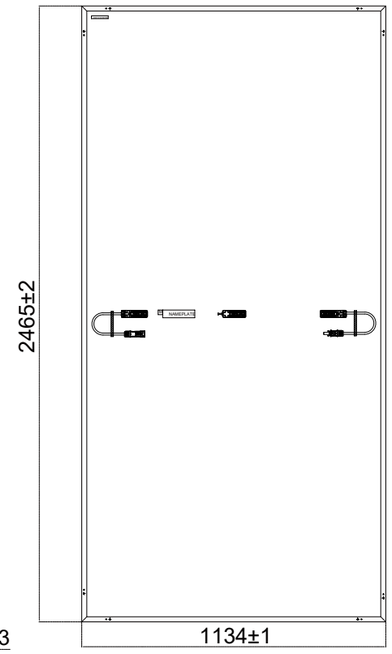
DIAGRAMAS MECÂNICOS





Cell Type

11BB

PARÂMETROS ELÉTRICOS

Electrical Properties | STC*						
Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	600	605	610	615	620	625
MPP Voltage (Vmp) (V)	45.5	45.7	45.9	46.1	46.2	46.3
MPP Current (Imp) (A)	13.19	13.24	13.29	13.35	13.42	13.50
Open Circuit Voltage (Voc) (V)	54.5	54.7	54.9	55.1	55.2	55.3
Short Circuit Current (Isc) (A)	13.92	13.98	14.04	14.10	14.17	14.25
Module Efficiency (%)	21.46	21.64	21.82	22.00	22.18	22.36

*STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM1.5
The data above is for reference only and the actual data is in accordance with the pratical testing

Electrical Properties | NOCT*						
Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	454	458	461	465	469	473
MPP Voltage (Vmp) (V)	42.7	42.9	43.1	43.2	43.3	43.4
MPP Current (Imp) (A)	10.63	10.67	10.72	10.76	10.82	10.88
Open Circuit Voltage (Voc) (V)	52.1	52.3	52.5	52.7	52.8	52.9
Short Circuit Current (Isc) (A)	11.22	11.27	11.32	11.37	11.42	11.49

*NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

Operating Properties	
Operating Temperature (℃)	-40℃~+85℃
Maximum System Voltage (V)	1500V (IEC)
Maximum Series Fuse Rating(A)	25
Power Tolerance	0~+5W
Bifaciality*	75%

*Bifaciality=Pmaxrear (STC) /Pmaxfront (STC) , Bifaciality tolerance:±5%

Temperature Coefficient	
Temperature Coefficient of Pmax*	-0.320%/℃
Temperature Coefficient of Voc	-0.260%/℃
Temperature Coefficient of Isc	+0.046%/℃
Nominal Operating Cell Temperature (NOCT)	42±2℃

*Temperature Coefficient of Pmax:±0.03%/℃

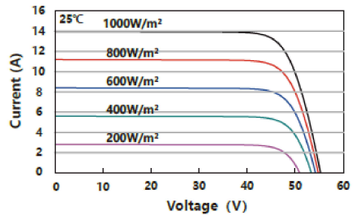
ESPECIFICAÇÕES

Mechanical Properties	
Cell Type	182.00mm*91.00mm
Number of Cells	156pcs(12*13)
Dimension	2465mm*1134mm*30mm
Weight	36.9kg
Front /Rear Glass*	2.0mm/2.0mm
Junction Box	IP68 (3 diodes)
Length of Cable*	4.0mm², 300mm
Connector	MC4 Compatible

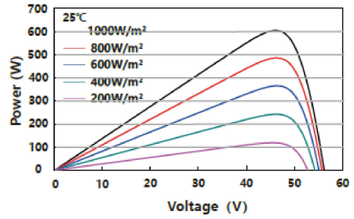
*Heat strengthened glass
*Cable length can be customized

CARATERÍSTICAS

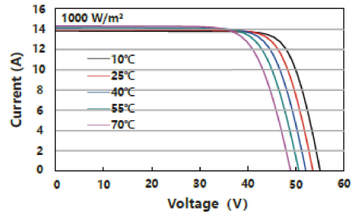
Characteristic Curves | HD156N-610



I-V Characteristics
At Different Irradiations



P-V Characteristics
At Different Irradiations



I-V Characteristics
At Different Temperatures

REV.	DATA	Projetado	Desenhado	Revisto	Aprovado	MOTIVO. STATUS DA REVISÃO
03	20.10.21	I.B.R.	I.B.R.	I.B.R.	E.R.S.	FEEDBACK DO CLIENTE
02	15.10.21	I.B.R.	I.B.R.	I.B.R.	E.R.S.	FEEDBACK DO CLIENTE
01	06.10.21	I.B.R.	I.B.R.	I.B.R.	E.R.S.	INÍCIO DO PROJETO

Engenharia : SÓLIDA ENERGÍAS RENOVABLES, S.L.

Cliente : SUNSHINING SA.

Classificação: -

Tipo : -

Arquivo :

Nº : -

Cliente :

ESCALA : -

VERSÃO INICIAL: 06.10.2021

Proj.	Desen.	Rev.	Aprov.
I.B.R.	I.B.R.	I.B.R.	E.R.S.

PROJETO FOTOVOLTAICO

CSF THSiS

PORTUGAL

PAINEL FOTOVOLTAICO JW-HD156N 625 W

Rev : 03

Substitui: - Folha: 01 Segue: -- DIN : A3

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DIN-A3