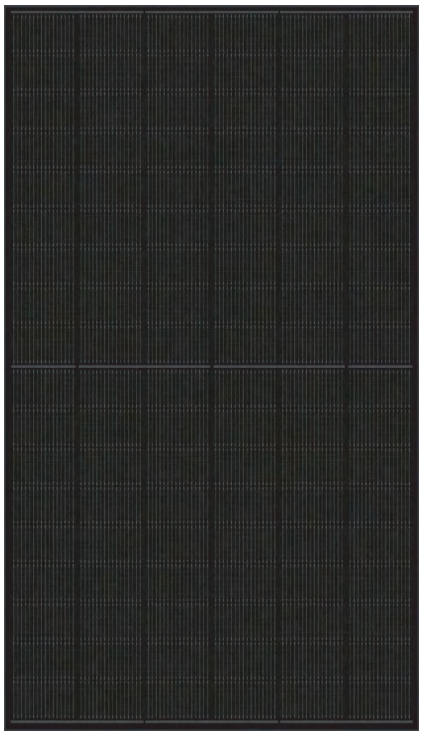
EX490-525TC(B)-108(HC)(210R)BF

490-525W N Type

Maximum Power Output	Maximum Module Efficiency	Power Output Tolerance
525W	23.6%	0~+5W

Bifacial Double Glass Module

IEC 61215, IEC 61730



25Years Enhanced Product Warranty on Materials and Workmanship
30Years Linear Power Performance Warranty

High Efficiency
Leading module efficiency in industry, up to 23.6%

Excellent Appearance and Performance
Bifacial solar cell, symmetrical design, low risk of micro-crack

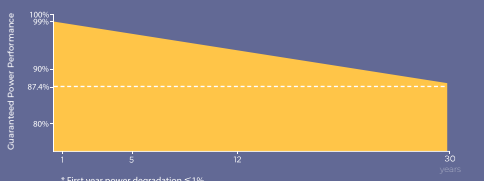
High Reliability
Passed 3*IEC standard test, 25 years materials warranty, 30 years power warranty

Excellent Rear Side Power Generation
Bifaciality is up to 80%, up to 30% more energy yield than conventional modules

Better low irradiance performance
Higher power output even under low irradiance environments like on cloudy or foggy days

Extensive Application Scenes
More extensive application scenes, such as, snow field, vertical installation, high humidity, strong wind and desert region

GARANTÍA DE RENDIMIENTO LINEAL
LINEAR PERFORMANCE WARRANTY



* First year power degradation ≤1%
* Annual power degradation (2-30 year) ≤0.3%
* Power output until the 30th year ≥87.4%

1 TIER Bloomberg NEW ENERGY FINANCE

CERTIFIED IEC 61730 Ed.1
CERTIFIED IEC 61215 Ed.2
Anti-PID System voltage durability PPP 56042
MCS CE INMETRO

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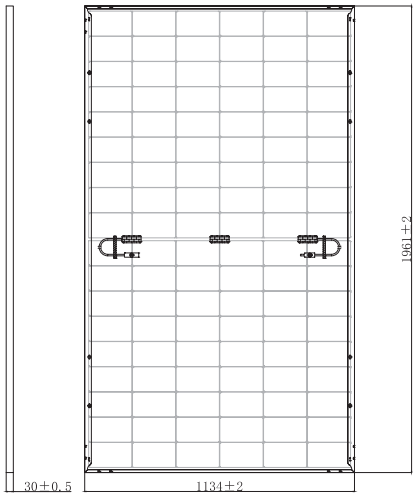
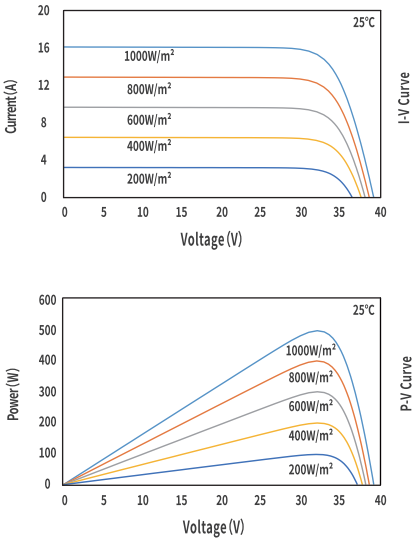
Engineering Drawing (mm)



Characteristic Curves(500W)



Electrical Parameters (STC *)

Nominal Max. Power(Pmax/W)	490	495	500	505	510	515	520	525
Open Circuit Voltage(Voc/V)	39.33	39.52	39.70	39.88	40.08	40.26	40.44	40.62
Short Circuit Current(Isc/A)	15.91	15.98	16.05	16.11	16.17	16.22	16.27	16.32
Operating Voltage(Vmp/V)	33.14	33.32	33.50	33.67	33.87	34.07	34.27	34.47
Operating Current(Imp/A)	14.79	14.86	14.93	15.00	15.06	15.12	15.18	15.24
Efficiency(%)	22.0	22.3	22.5	22.7	22.9	23.2	23.4	23.6

STC * : Irradiance = 1000 W/m², Cell Temperature = 25°C, AM = 1.5
Test condition is based on the front side

Mechanical Parameters

Cell Type	N Type
Module Size	1961×1134×30mm
Glass Thickness	2.0mm + 2.0mm
Module Weight	27.1Kg
Output Cable	4mm², cable length 1200mm (can be customized)
Connector	Original MC4 Series
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy（Black）

Electrical Parameters (NMOT *)

Nominal Max. Power(Pmax/W)	373	377	381	385	389	392	396	400
Open Circuit Voltage(Voc/V)	37.66	37.84	38.01	38.19	38.38	38.55	38.72	38.89
Short Circuit Current(Isc/A)	12.83	12.88	12.94	12.99	13.03	13.08	13.13	13.18
Operating Voltage(Vmp/V)	31.31	31.48	31.65	31.82	32.01	32.19	32.37	32.55
Operating Current(Imp/A)	11.92	11.98	12.04	12.09	12.14	12.19	12.24	12.29

NMOT *: Irradiance = 800 W/m², Ambient Temperature = 20°C, AM = 1.5,
Wind Speed = 1 m/s
Test condition is based on the front side

Temperature Coefficients

Short Circuit Current(Isc)	+0.045%/°C
Open Circuit Voltage(Voc)	-0.250%/°C
Nominal Max. Power(Pmax)	-0.280%/°C
NMOT	42±2°C

Backside Power Gain （For 500W）

Power Gain	10%	15%	20%	25%	30%
Nominal Max. Power(Pmax/W)	550.0	575.0	600.0	625.0	650.0
Open Circuit Voltage(Voc/V)	39.70	39.70	39.80	39.80	39.80
Short Circuit Current(Isc/A)	17.66	18.46	19.26	20.06	20.87
Operating Voltage(Vmp/V)	33.50	33.50	33.60	33.60	33.60
Operating Current(Imp/A)	16.42	17.16	17.86	18.60	19.35

Operating Parameters

Max. System Voltage	DC1500V
Power Tolerance	0 ~ +5 W
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	30A
Bifaciality	80%±5%
Static Load	Front 5400Pa, Back 2400Pa
Packing Data	36 pcs/Pallet；180(20GP)；864(40HQ)