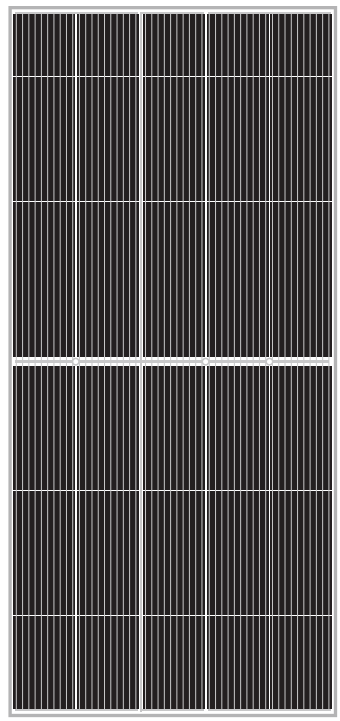
ZXM8-SPLDD110 **Series**

Znshinesolar 10BB HALF-CELL Bifacial Light-Weight Double Glass Monocrystalline PERC PV Module

525W | 530W | 535W | 540W | 545W | 550W



Half Cell Technology

Module RS decreases, FF (fill factor) increases, power gain is stable above 1.5%

High Efficiency

Graphene coating can increase the module efficiency by rising the light transmission

Anti PID

Limited power degradation of ZXM8-SPLDD110 module caused by PID effect is guaranteed under strict testing condition for mass production

Bifacial technology

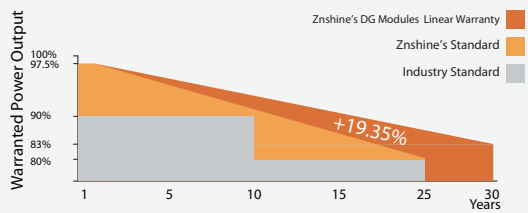
Enables additional energy harvesting from rear side (up to 25%)

Better Weak Illumination Response

Lower temperature coefficient and wide spectral response,higher power output, even under low-light settings

Grahpene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintainance cost



12 years product warranty
30 years output warranty

0.5% Annual Degradation over 30 years

ZNShine PV-Tech Co., LTD, founded in 1988, is a world-leading high-performance PV module manufacturer, PV power station developer, EPC and power station operator. With its state-of-the-art production lines, the company boasts module output of 5GW. Bloomberg has listed ZNShine as a global Tier 1 PV manufacturer and Top 4 reliable PV supplier.

www.znshinesolar.com

ZXM8-SPLDD110 Series | Znshinesolar 10BB HALF-CELL Bifacial Light-Weight Double Glass Monocrystalline PERC PV Module

ZNSHINESOLAR

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM8-SPLDD110-525/M	ZXM8-SPLDD110-530/M	ZXM8-SPLDD110-535/M	ZXM8-SPLDD110-540/M	ZXM8-SPLDD110-545/M	ZXM8-SPLDD110-550/M
Nominal Power Watt Pmax(W)	525	530	535	540	545	550
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmpp(V)	30.6	30.8	31.0	31.2	31.4	31.6
Maximum Power Current Impp(A)	17.16	17.21	17.26	17.31	17.36	17.41
Open Circuit Voltage Voc(V)	37.0	37.2	37.4	37.6	37.8	38.0
Short Circuit Current Isc(A)	18.09	18.14	18.19	18.24	18.29	18.34
Module Efficiency (%)	20.09	20.28	20.48	20.67	20.86	21.05

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25℃, AM 1.5
*The data above is for reference only and the actual data is in accordance with the pratical testing

ELECTRICAL PROPETIES | NMOT*

Maximum Power Pmax(Wp)	391.6	395.3	399.0	402.8	406.5	410.3
Maximum Power Voltage Vmpp(V)	28.5	28.7	28.9	29.0	29.2	29.4
Maximum Power Current Impp(A)	13.74	13.79	13.83	13.87	13.91	13.95
Open Circuit Voltage Voc(V)	34.5	34.7	34.9	35.1	35.3	35.4
Short Circuit Current Isc(A)	14.61	14.65	14.69	14.73	14.77	14.81

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20℃,AM 1.5,Wind Speed 1m/s
*The data above is for reference only and the actual data is in accordance with the pratical testing

Electrical characteristics with 25% rear side power gain

Front power Pmax/W	525	530	535	540	545	550
Total power Pmax/W	656	663	669	675	681	688
Vmp/V(Total)	30.7	30.9	31.1	31.3	31.5	31.7
Imp/A(Total)	21.38	21.44	21.50	21.57	21.63	21.69
Voc/V(Total)	37.1	37.3	37.5	37.7	37.9	38.1
Isc/A(Total)	22.53	22.60	22.66	22.72	22.79	22.85

Temperature ratings

NMOT	44℃ ±3℃
Temperature coefficient of Pmax	-0.36%/℃
Temperature coefficient of Voc	-0.29%/℃
Temperature coefficient of Isc	0.05%/℃
Refer.Bifacial Factor	70±5%

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

Working conditions

Maximum system voltage	1500 V DC
Operating temperature	-40℃~+85℃
Maximum series fuse	35 A
Maximum load(snow/wind)	5400 Pa / 2400 Pa

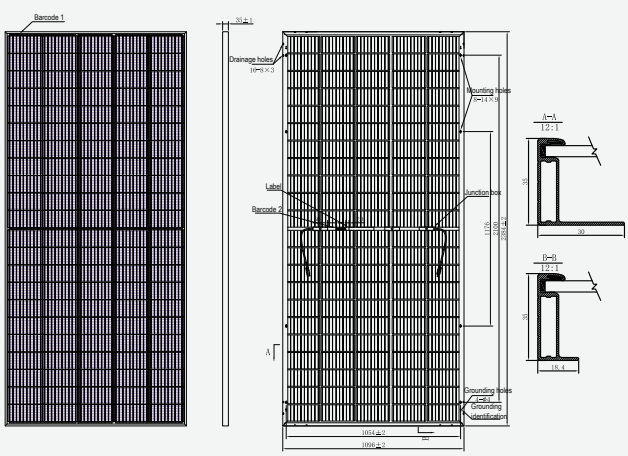
Mechanical data

Solar cells	Mono PERC
Cells orientation	110 (5×22)
Module dimension	2384×1096×35 mm(With Frame)
Weight	34.5 kg
Glass	2.0 mm+2.0mm, High Transmission,
	AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm² ,350 mm
Connectors	MC4-compatible

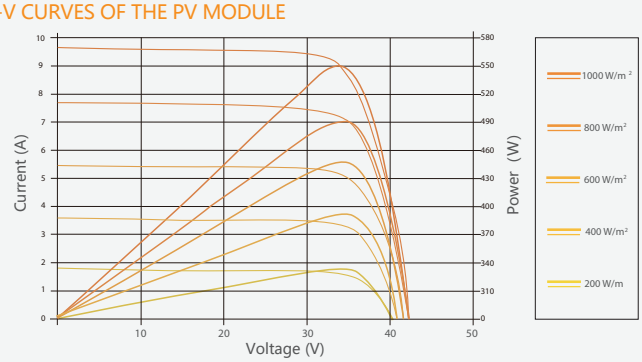
Packaging information

Packing Type	40'HQ
Piece/Box	30
Piece/Container	496/536

Dimension of the PV module (mm)



I-V CURVES OF THE PV MODULE



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Remark: please read safety and installation instructions before using the product | Subject to change without prior notice © ZNSHINE SOLAR 2020 | Version: ZXM8-SPLDD110 2010.E