



ZHM-230P

Polycrystalline Solar Module

- Certificates: TUV, VDE, MCS, IEC, CSA
61215/61730, UL1703, CEC, CE, ISO
- 10 years product defect warranty
25 years power output warranty: 90% in 10 years,
80% of 25 years
Module is certified to withstand high wind loads
(2400 Pascal) and snow loads(5400 Pascal)
- Power tolerance: 0~+3%
- Cell: High efficiency solar cells
- Standard waterproof junction box, with bypass
diode, which protects the module from burning
caused by hot-spot effect because of shading
- 3.2mm high transmission tempered glass
- Anodized aluminum alloy frame (Available
Depth: 35/45/50mm)



UE Solar Co., Ltd is a manufacturer of high quality mono- and multi-crystalline silicon PV modules in East China; with an annual capacity of 300MW. Our 860 research staff and workers dedicate themselves to providing inexhaustible and renewable energy.

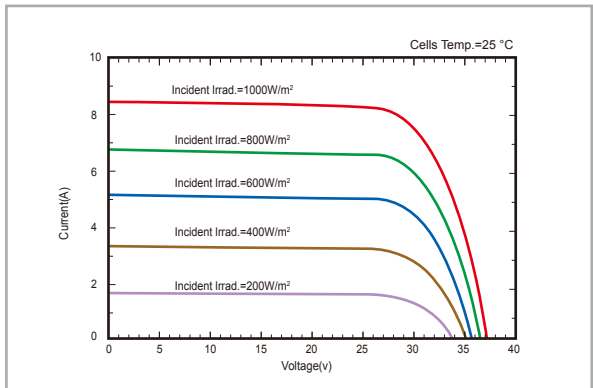
Electrical Performance

ZHM-230P		ZHM 225P	ZHM 230P	ZHM 235P	ZHM 240P	ZHM 245P	ZHM 250P	ZHM 255P	ZHM 260P
Peak power	Pmax Wp	225	230	235	240	245	250	255	260
Maximum power voltage	Vmp V	28.41	28.83	29.23	29.67	30.02	30.45	30.83	31.21
Maximum power current	Imp A	7.92	7.98	8.04	8.09	8.16	8.21	8.27	8.33
Short circuit current	Isc A	8.62	8.67	8.80	8.91	9.00	9.11	9.17	9.25
Open circuit voltage	Voc V	34.18	34.60	35.16	35.72	36.12	36.81	37.31	37.45
cell efficiency	%	15.41	15.75	16.10	16.44	16.78	17.12	17.47	17.81
Module efficiency	%	13.86	14.17	14.47	14.78	15.09	15.40	15.71	16.01

Working Conditions & Parameters

Maximum system Voltage (V)	1000 V
Power tolerance	0~+3%
Cell dimension	156*156mm
Number of cells / Layout	60pcs. /10*6
NOCT cell	46±2 °C
Temperature coefficient Isc (%)	+0.04±0.015% / °C
Temperature coefficient Voc (%)	-0.3±0.02% / °C
Temperature coefficient Pm (%)	-0.45±0.05% / °C
Temperature coefficient Im (%)	+0.04% / °C
Temperature coefficient Vm (%)	-0.32±0.02% / °C
Operating temperatures	-40°C ~ +90 °C
Surface pressure	60m/s (200kg /m²)

I-V Curve



Length	Width	Depth	Weight
1640mm	990mm	45mm	20Kg
1640mm	990mm	50mm	20Kg

Packaging

45' Frame

25 modules / 1 cardboard box
1 cardboard box / 1 pallet
22 modules / 1 cardboard box
1 cardboard box / 1 pallet

Container loading capacities

Container 40" (High):
611 modules / 26 pallets

50' Frame

23 modules / 1 cardboard box(down)
1 cardboard box / 1 pallet
20 modules / 1 cardboard box(down)
1 cardboard box / 1 pallet

Container loading capacities

Container 40" (High):
559 modules / 26 pallets

Front and Back View

