

## AR-P280W

**60 Cells 19.56% Cells Efficiency**

**1500VDC Maximum system voltage**



### Benefits

- High efficiency solar cells with high transmission and textured glass are delivering high efficiency for
- Bypass diode minimizes the power drop caused by shade;
- Tempered glass, EVA resin, and weatherproof film, plus aluminum frame for extended outdoor use;
- Modules independently tested to ensure conformance with certification and regulatory standards;
- Manufacturing facility certified to ISO 9001/ISO 14001; quality management system standards.

### Key Features

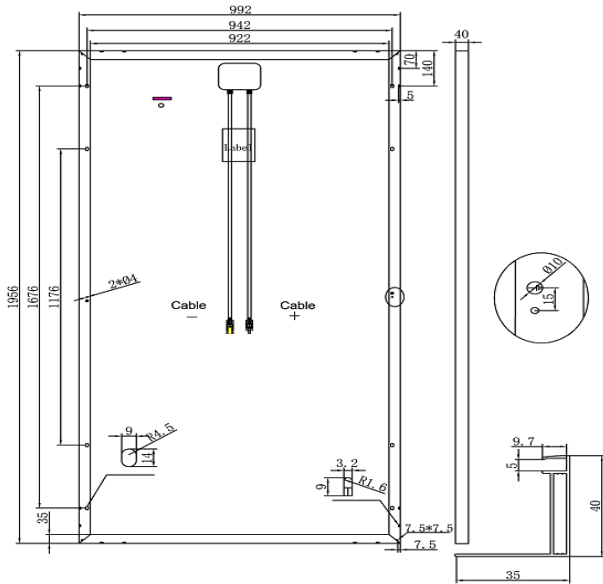
- **OUTPUT POSITIVE TOLERANCE:**  
Guaranteed 0~+5W positive tolerance ensures power responsibility
- **PASSED HAIL TEST:**  
Certified to hail resistance: ice ball size (d=45mm) and ice ball velocity(v=23.m/s).
- **PID RESISTANCE:**  
Excellent PID resistance at (-40°C~+85°C) test, and also can be improved to meet higher standards for the particularly harsh environment.
- **EXCELLENT MECHANICAL LOAD CAPABILITY:** Certified to withstand: snow load (5400 Pa) and wind load (2400 Pa).
- **WARRANTIES:**  
12 year limited product warranty; 25 year limited power output warranty(90% for 10 years, and 80% for 25 years),Please refer to our Warranty Terms conditions

#### OREX

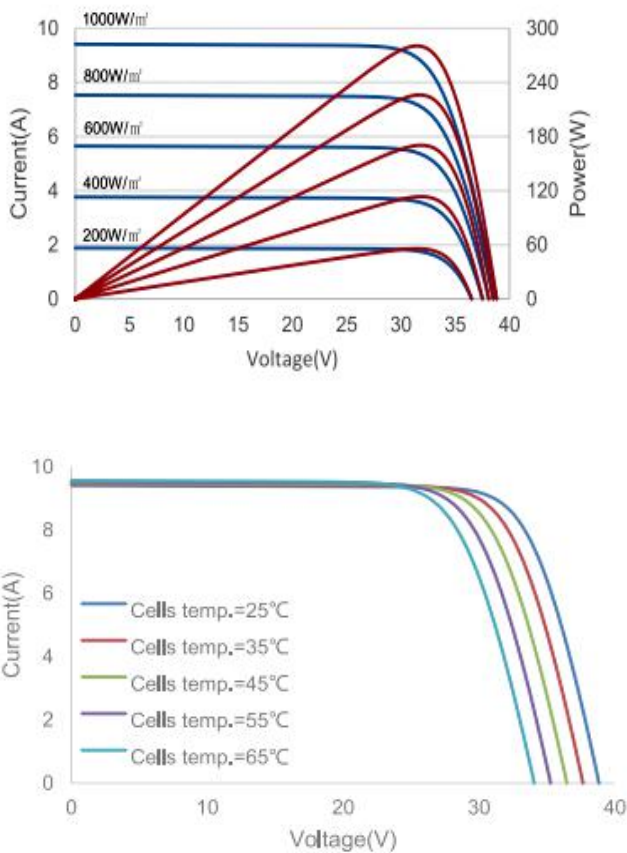
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### Module Dimensionl Details



### IV-Curves



### ELECTRICAL SPECIFICATIONS

AT STC(AM1.5,Temp 25°C,E 1000W/m²)		
Module Type	AR-P280W	
Power output	Pmax	280W
Module efficiency	$\eta_m$	17.21%
Voltage at Pmax	Vmp	31.40V
Current at Pmax	Imp	8.92A
Open circuit voltage	Voc	37.46V
Short circuit current	Isc	9.40A

AT NOCT(Temp 20°C,E 800W/m² wind speed 1m/s)		
Module Type	AR-P280W	
Power output	Pmax	207.2W
Voltage at Pmax	Vmp	28.73V
Current at Pmax	Imp	7.21A
Open circuit voltage	Voc	34.28V
Short circuit current	Isc	8.15A

### Mechanical Data

Module Demision (mm)	1640×992×40
Cells	60( 6×10)
Weight (kg)	18.6
Glass	High transmission glass 3.2mm
anti-reflective coating	Antireflecting glass
Junction box IP rating	IP67 1500VDC 3 bypass diode
Cable	TUV certificated 4mm²
Connector type	MC4 compatible
Fire performance	Class C

### Working Conditions & Temperature

Temperature coefficient (P mpp )	-0.39%/°C
Temperature coefficient (I sc )	+0.05%/°C
Temperature coefficient (V oc )	-0.29%/°C
NOCT	45°C±2°C
Maximum system voltage (IEC)	1500V DC
Maximum series fuse rating	15A

### Packing

packing unit	27pcs/box
1*40'HQ	28Pallets/756pcs