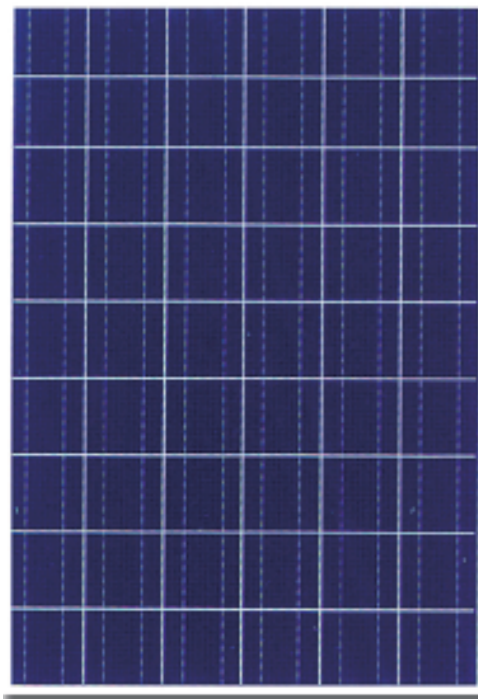


180/185/190/195/200/205/210/215/220 W  
**Poly 180-220 Watt**



Established in 2009, Jiangsu Runner PV Technology Co., Ltd. is specialized in manufacturing PV cells and modules as well as the application of PV systems.

**RN220P-156 Series**  
 POLY CRYSTALLINE MODULE



**KEY FEATURES**

Our solar cells offer high conversion efficiency to ensure high quality. Our high performing modules have an industry low tolerance of +/-3%. Can withstand high wind-pressure, snow load and extreme temperature. Passed IEC 5400 Pa mechanical loading test.

**QUALITY&SAFETY**

Power output warranty(10/90%,25/80%)  
 5-year warranty on product materials and processing technology  
 ISO 9001:2008(Quality Management System) certified factory  
 IEC61215、IEC61730 certified products

**APPLICATIONS**

- On-grid residential roof-tops
- On-grid commercial/industrial roof-tops
- Solar power plants
- Off-grid system
- Other on-grid applications



**Sales Department**

Address: No.1 Qiantangjiang Road, Wuxi-Xinyi Industrial Zone, Xinyi City, Jiangsu Province, China  
 Tel: +86 516 87826666  
 Fax: +86 516 85816666  
 E-mail: Anna@runner-pv.com

**Typical Data at Standard Test Conditions (STC)**

Module Type	RN180P-156	RN185P-156	RN190P-156	RN195P-156	RN200P-156	RN205P-156	RN210P-156	RN215P-156	RN220P-156
Nominal Peak Power [W]	180	185	190	195	200	205	210	215	220
Power Tolerance [%]	+/- 3	+/- 3	+/- 3	+/- 3	+/- 3	+/- 3	+/- 3	+/- 3	+/- 3
Peak Power Voltage [V]	25.5	25.5	26	26	26.5	26.5	27	27	27.5
Peak Power Current [A]	7.06	7.25	7.31	7.5	7.55	7.74	7.78	7.96	8
Open Circuit Voltage [V]	31.6	31.6	32.2	32.2	32.9	32.9	33.5	33.5	34.1
Short Circuit Current [A]	7.55	7.69	7.81	7.95	8.08	8.28	8.32	8.52	8.64
Maximum System Voltage [V]	1000								

STC: Standard Test Conditions; 1000W/m<sup>2</sup>, 25°C, AM 1.5

**Thermal Characteristics**

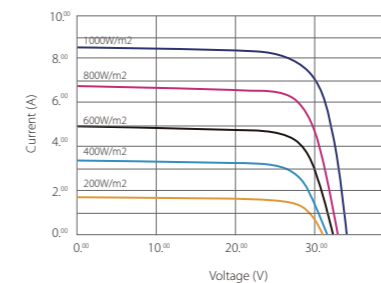
NOCT (Nominal Operating Cell Temperature) °C	48±2°C	
Temperature Coefficient I <sub>sc</sub>	TK I <sub>sc</sub>	0.04 [%/K]
Temperature Coefficient V <sub>oc</sub>	TK V <sub>oc</sub>	-0.33 [%/K]
Temperature Coefficient P <sub>mp</sub>	TK P <sub>mp</sub>	-0.43 [%/K]

**Mechanical Characteristics**

Dimensions (L / W / H)	1482×992×45mm
Weight [KG]	16.8
Front cover (material / thickness)	low-iron tempered glass, 3.2mm
Cells	polycrystallines 156×156mm/54pcs
Encapsulation materials	Ethylene Vinyl Acetate (EVA)
Rear cover(Material/thickness[mm])	TPT
Frame (material)	robust anodized aluminum alloy

**Current-Voltage Curve (210P-156)**

Efficiency:	up to 14.4
Max. Wattage:	212 W
Guarantee:	25 years



**Operating Conditions**

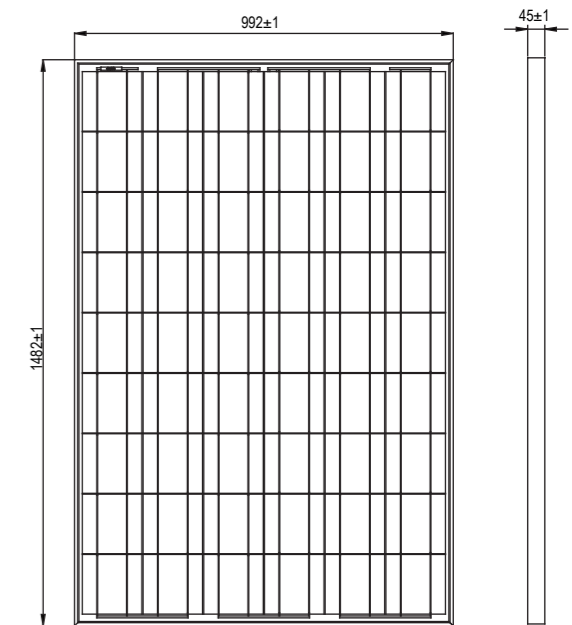
Temperature	-40°C to +90°C
Max. Load	5400 Pa

**Packaging Configuration**

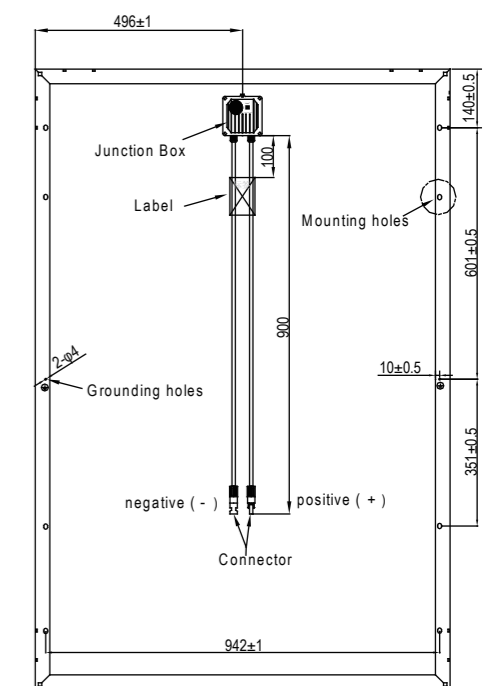
Quantity/Pallet	21pcs/pallet	23pcs/pallet
Loading Quantity	294pcs/20'gp	690pcs/40hq

**Warranty**

Warranty: 25 years power warranty, 5 years product warranty. More details are available in our Warranty conditions.



Front Side



Back