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Solar Panel Guide Specification Data Sheet

**Zhejiang ERA Solar Co., Ltd.
ESPSA 180W-210W
ESPSA 210W**

Also available on the web at
EnergyPal.com/zhejiang-era-solar-co-ltd-solar-panels/espsa-210w

ESPSA

Monocrystalline Solar Module

KEY FEATURES

- 2 Busbar Solar Cell:**
2 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.
- High Power Output:**
Monocrystalline 72-cell module achieves a power output up to 210Wp.
- Low-light Performance:**
Advanced glass and surface texturing allow for excellent performance in low-light environments.
- Reliable Warranty:**
10 years' product warranty.
Power warranty of 90% up to 10 years and 80% up to 25 years.



WATTS
POSITIVE
TOLERANCE



10 YEARS
PRODUCT
WARRANTY



10 YEARS
PERFORMANCE
GUARANTEE 90%



25 YEARS
PERFORMANCE
GUARANTEE 80%

MONOCRYSTALLINE, 72-CELL SERIES

ELECTRICAL PERFORMANCE

Module type: ESPSA	180	190	200	210
Maximum Power(Wp)	180W	190W	200W	210W
Open circuit Voltage(Voc)	44.1V	44.8V	45.4V	45.9V
Short circuit Current(Isc)	5.4A	5.6A	5.8A	6A
Maximum Power Voltage(Vm)	35.6V	36.2V	36.7V	37.2V
Maximum Power Current(Im)	5.05A	5.25A	5.45A	5.65A
Module efficiency	14.1%	14.9%	15.7%	16.4%
Maximum Series Fuse	15A			
Watts positive tolerance	0~+3%			
Number of Diode	3			
Standard Test Conditions	1000W/M ² ,25°C,AM1.5			
Maximum System Voltage	1000V/DC			
Temperature-Coefficient Isc	+0.08558%/°C			
Temperature-Coefficient Uoc	-0.29506%/°C			
Temperature-Coefficient Pmpp	-0.38001%/°C			
Normal Operating Cell Temperature	-40°C...+85°C			
Load Capacity for the cover of the module (glass)	5400Pa(IEC61215)(snow)			
Load Capacity for the front & back of the module	2400Pa(IEC61215)(wind)			
Product Certificate	TUV(IEC 61215,IEC 61730),CE, ROHS,PID Resistant,INMETRO			
Company Certificate	ISO9001,ISO14001,ISO18001			

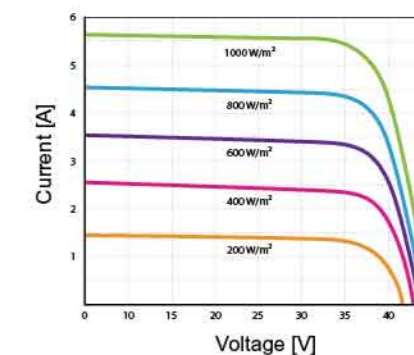
MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	TPT in white
Cell (quantity / material / dimensions)	72 / monocrystalline silicon / 125x125mm
Frame (material / color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / silver
Junction box (protection degree)	≥IP68
Cables & Plug connectors	2x900mm / 4mm ² & MC4 compatible
Module Dimensions (L / W / H)	1580x808x35mm
Module Weight	13.5kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

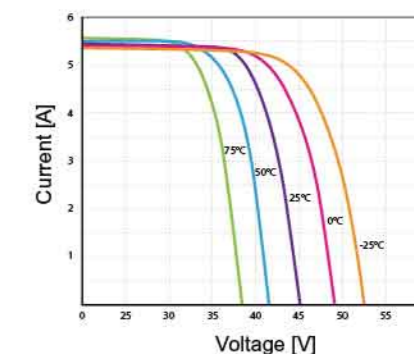
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
20GP	30	410	1630x1130x940	390
	35	475	1630x1130x1135	
40HQ	30	410	1630x1130x940	1050
	45	610	1630x1130x1500	

CURRENT-VOLTAGE CURVES:



Module characteristics at constant module temperatures (25°C) and different levels of irradiance.



Module characteristics at different module temperatures and constant module irradiance (1.000 W/m²).

MODULE DIAGRAM:

