



## Mono-crystalline Silicon Module 110W-150W



CHARACTERISTICS	AP-M110	AP-M120	AP-M130	AP-M140	AP-M150
Max.Power(Pmax)	110Wp	120Wp	130Wp	140Wp	150Wp
Optimum Operating Voltage(Vmp)	17.6V	17.8V	17.8V	18V	18V
Optimum Operating Current(Imp)	6.25A	6.75A	7.31A	7.78A	8.34A
Open-circuit Voltage(Voc)	21.6V	21.6V	22.8V	23.1V	23.2V
Short-circuit Current(Isc)	6.92A	7.21A	7.96A	8.18A	8.87A
Cell Efficiency(%)	14	15	16.5	17.44	18.02

### MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline 156*156mm
No. of Solar Cells and Connection	36 (4*9)
Module Dimension	1460x680x35mm
Weight	12 kg
No. of Diodes	2 / IP65
Frame Material	Clear Anodized Aluminum Frame
Application Class	Class A
Max. Series Fuse Rating	15 A
Tolerance of Rating	IP65
Load Capacity	500pcs/20' GP 1000pcs/40'HQ

### TEMPERATURE COEFFICIENTS

Temperature Coefficient of VOC( $\beta$ )	(-0.35%/°C)
Temperature Coefficient of ISC( $\alpha$ )	(+0.06%/°C)
Temperature Coefficients of Pmax	(-0.4%/°C)
NOTC	47°C

### PERMISSIBLE OPERATING CONDITIONS

Maximum System Voltage	1000V(TUV)/600V(UL)
Operating Temperature	-40°C to +85°C
Snow Load	Max 5400Pa
Wind Load	Max 120km/h

### WARRANTY

5 years materials and workmanship defects  
 10 years 90% rated power output  
 20 years 80% rated power output

