



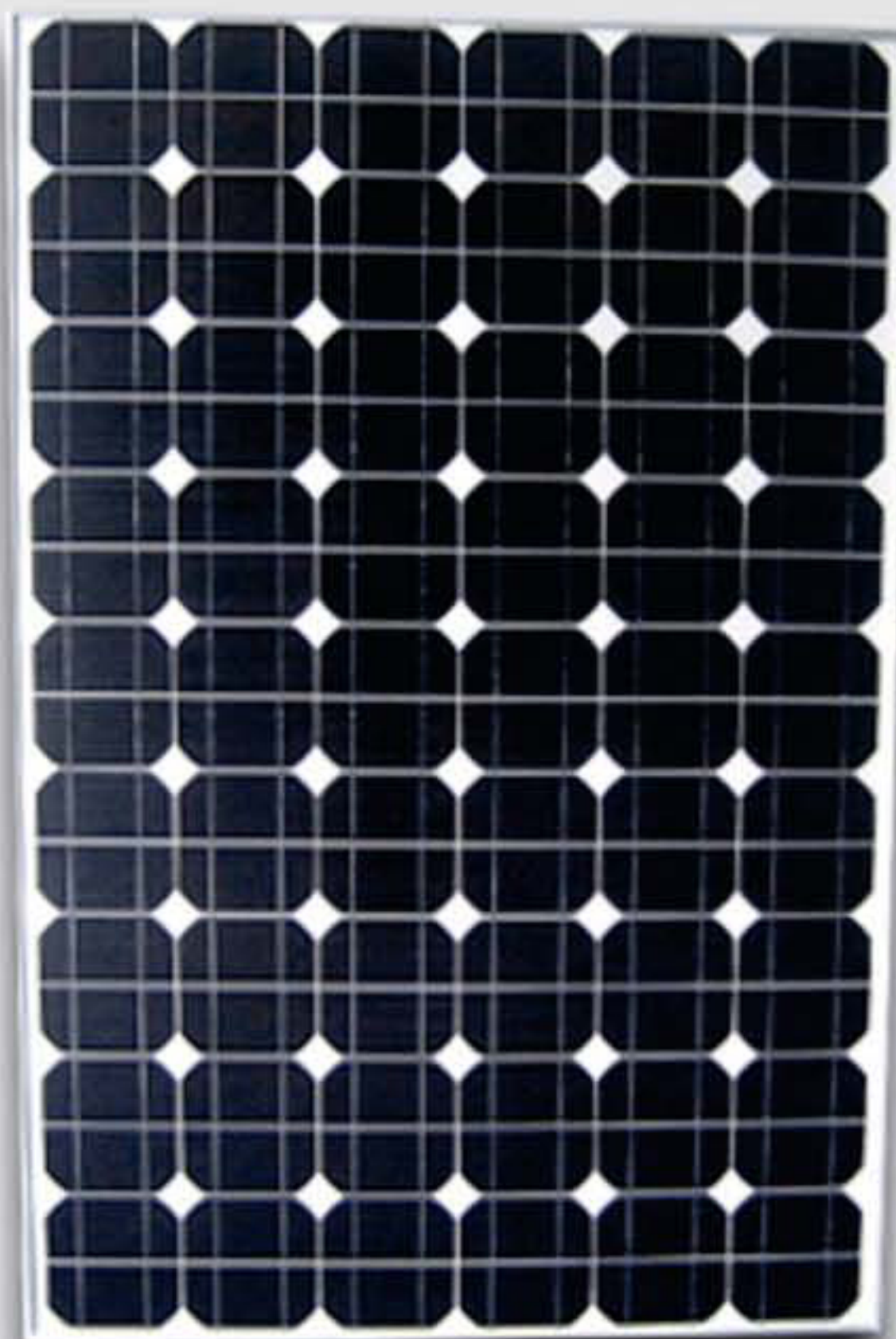
SA145-108

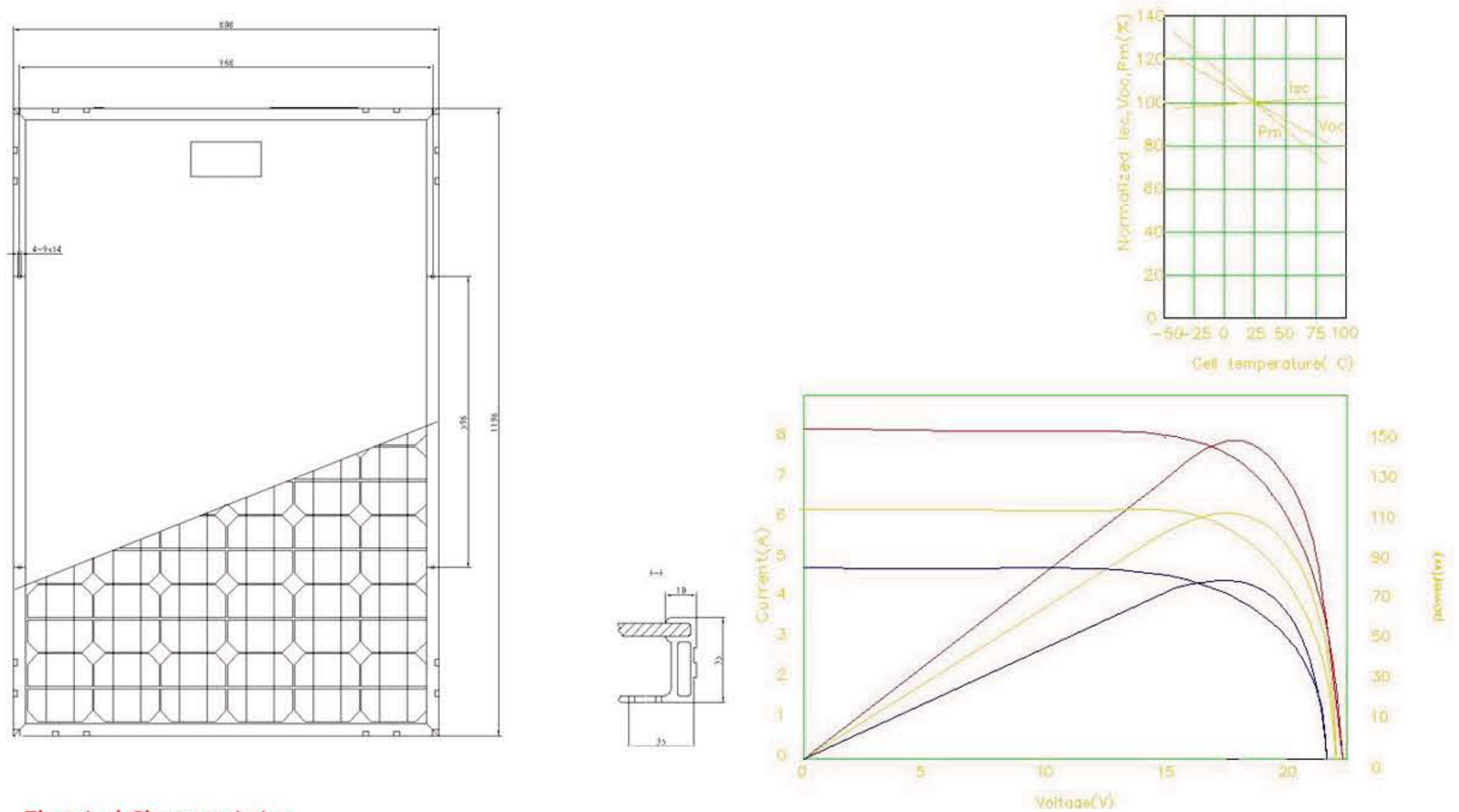
145w

Monocrystalline Solar Panel

Features

- +/- 3% power tolerance;
- Quality supervision procedure is strictly implemented and test result of detailed current and voltage is supplied;
- Glass have self-cleaning ability, reducing the probability of generating efficiency cause by dust;
- Low working temperature of standard battery and excellent dim light property;
- All the solar panels have passed the test of mechanical loading, able to resist against the abominable and high-load working environment;
- Able to supply multi-specification and high-quality solar panels with an output power of 2w-300w, suitable for on/off grid applications;
- Many international certifications and tests have been passed;
- 25-year output power guarantee period, 5-year product quality guarantee period.





Electrical Characteristics

Type	SA120-108	SA125-108	SA130-108	SA135-108	SA140-108	SA145-108
Maximum power (Wp)	120Wp	125Wp	130Wp	135Wp	140Wp	145Wp
Maximum power voltage (V)	18.00	18.00	18.00	18.00	18.00	18.00
Maximum power current (A)	6.67	6.95	7.23	7.50	7.78	8.05
Open circuit voltage (V)	21.60	21.60	21.60	21.60	21.60	21.60
Short circuit current (A)	7.34	7.49	7.94	8.10	8.55	8.70
Cell Efficiency (%)	16.25%	16.50%	16.75%	17.00%	17.30%	17.50%
FF (%)	≥74%					
Maximum system voltage (V)	1000V					
Temperature Range	-40°C to +85°C					
Power tolerance (%)	±5%					
Standard Test Conditions	1000W/m2 , AM1.5 , 25°C					

Mechanical Characteristics

Solar cell	Mono	Mono	Mono	Mono	Mono	Mono
Number of cells (Pcs)	108(6*18)					
Size of module (mm)	1196*808*35mm					
Weight per piece (kg)	12					
Front Glass	3.2 mm tempered glass					
Surface Maximum Load Capacity	60m/s(200kg/sq.m)					
Allowable Hail Load	steel ball fall down from 1m height					
Frame	Anodized aluminium alloy					
Junction Box Type	IP65 rated					

Temperature coefficients

Nominal Operating Cell Temperature	45±2°C
Temperature coefficients of Voc (%)	β -2.2mV/°C
Temperature coefficients of Pm (%)	γ -0.55%/°C
Temperature coefficients of Im (%)	α 0.03%/°C
Temperature coefficients of Vm (%)	β -2.2mV/°C