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IEC 61730  
Regular Production  
Surveillance  
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# APLUS ENERGY OFFERS ANOTHER ALTERNATIVE TO GLASS SOLAR PANEL.

## Steel Roof PV—Corrugated metal solar panels

Combine roof and solar module in one  
Certified for residential and commercial use  
They are lightweight, durable, impact resistant,  
low glare and are easily installed.



**AP-PVROOF-319 ▲ 150W**  
1200x870/47.24x34.25(mm/inch)



**AP-PVROOF-315 ▲ 225W**  
1700x870/66.93x34.25(mm/inch)



**AP-PVROOF-522 ▲ 300W**  
2150x870/84.65x34.25(mm/inch)

### APLUS ENERGY CO., LTD.

Address: 2B-36, No. 5, Sec. 5, Xinyi Road,  
Taipei 11011, TAIWAN. R.O.C

Tel: +886 (0)2 2720 8862  
Fax: +886 (0)2 2720 6380

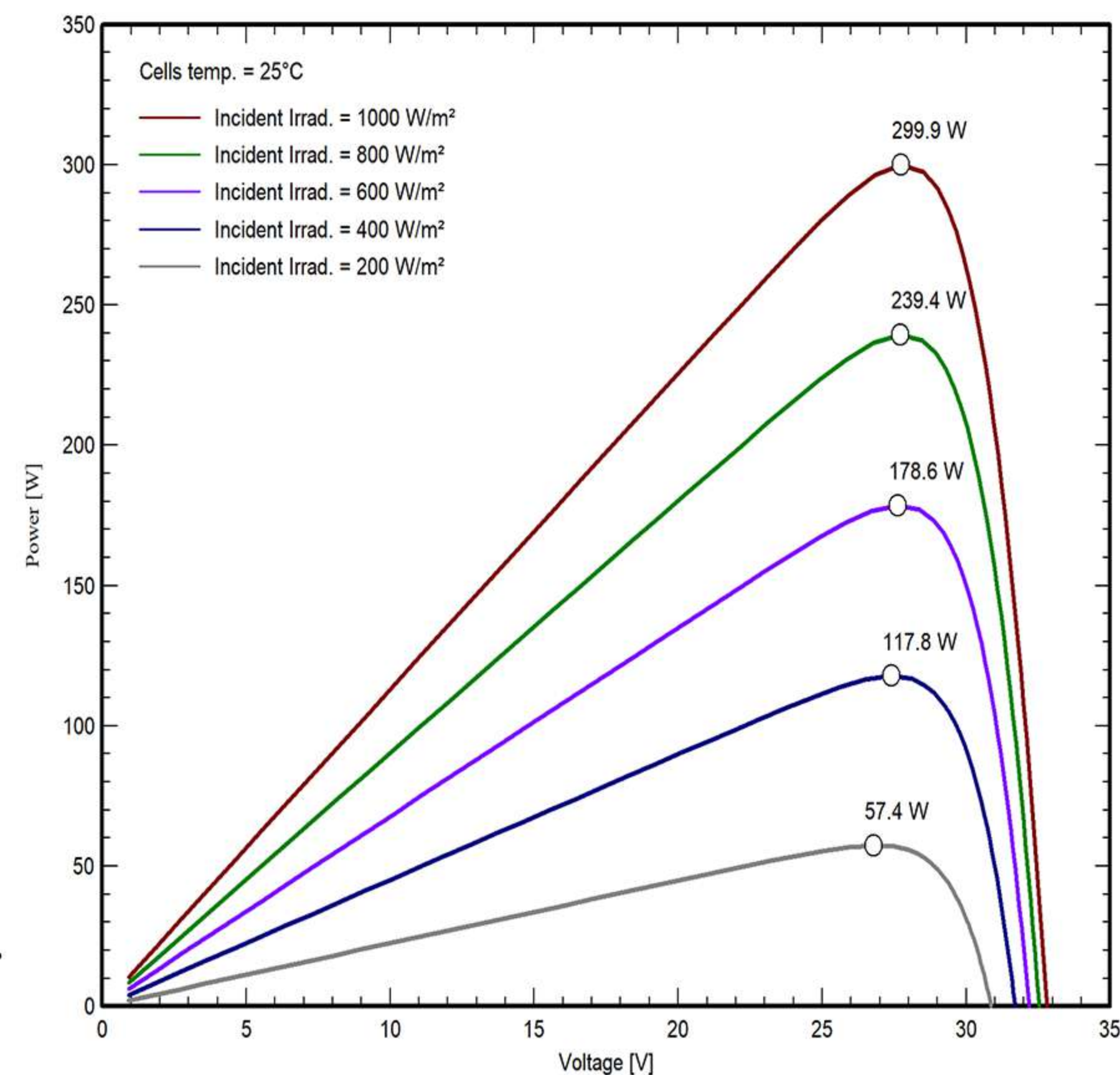
E-mail : [aplust@apluspvt.com](mailto:aplust@apluspvt.com)  
Website : [www.aplustpvt.com](http://www.aplustpvt.com)





## FEATURES:

- ▶ Crystalline silicon solar cells laminated directly to metal sheets.
- ▶ Pre-painted 55% Al-Zn Alloy-coated steel for outdoor use.
- ▶ Bypass diode is attached minimize power reduction cause by shade.
- ▶ Light weight and easy to install.
- ▶ Avoids the expense of racks.
- ▶ No roof penetrations.
- ▶ Long-term durability and stain resistant.
- ▶ Aesthetically superior in design.
- ▶ Synchronized PV and roof warranty, 10 years limited warranty of 90% and 20 years limited warranty of 80% power output.



Temperature Coefficient of Isc: 0.0686%/°C  
 Temperature Coefficient of Voc: -0.362%/°C  
 Power Temperature Coefficient: -0.4359%/°C  
 NOCT: 43.6 ± 1°C

Standard Test Conditions: AM1.5, 25°C, 1000W/m²

ABSOLUTE MAXIMUM RATINGS	
Parameters	Rating
Operating Temperature (°C)	-40~+90
Fire Class	C
Mechanical Load Limits (lb/ft²)	33

ELECTRICAL CHARACTERISTICS			
Module Type	AP-PVROOF-319	AP-PVROOF-315	AP-PVROOF-522
Pmax(W)	150	225	300
Vpm(V)	13.9	20.85	27.8
Ipm(A)	10.79	10.79	10.79
Voc(V)	16.1	24.1	32.8
Isc(A)	11.33	11.33	11.33
Cell No.	24	36	48
Cell Efficiency (%)	22.7	22.7	22.7
Max. system Voltage (V)	600		
Series Fuse rating (A)	12		
Performance Tolerance	+3%		

MECHANICAL CHARACTERISTICS	AP-PVROOF-319	AP-PVROOF-315	AP-PVROOF-522
Dimensions (mm/inch)	1200×870/47.24×34.25	1700×870/66.93×34.25	2150×870/84.65×34.25
Weight (kgs)	7	10	15.5
Packing/Pallet (pcs)	50	50	50
20' Container (pcs)	1000	500	500