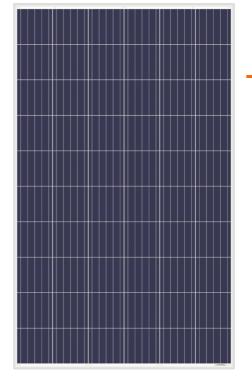


AS-6P30 SMART



Passionately

committed to

delivering innovative

energy solution

POLYCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 17.52% by using high efficient solar cells and advanced manufacturing technology.
- Harvest of up to 25% more energy from each module by the integrated power optimizer.
- All types of modules mismatch loss from manufacturing tolerance to partial shading are mitigated greatly.
- S Automatic module DC voltage shut-down for maximum safety of the system.
- The MPPT per module allows for flexible installation design with multiple orientations, tilts, module types and longer strings and strings of different lengths.
- Real-time performance monitoring for each module.
- Solution Positive power tolerance of $0 \sim +3 \%$.

CERTIFICATIONS

IEC61215, IEC61730, IEC62716, IEC61701, CE, CQC, CGC, ETL(USA),

- JET(Japan), J-PEC(Japan), Kemco(South Korea), KS(South Korea), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- S OHSAS18001:2007: Occupational health and safety management system

SPECIAL WARRANTY

- 12 years limited product warranty.
- Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.

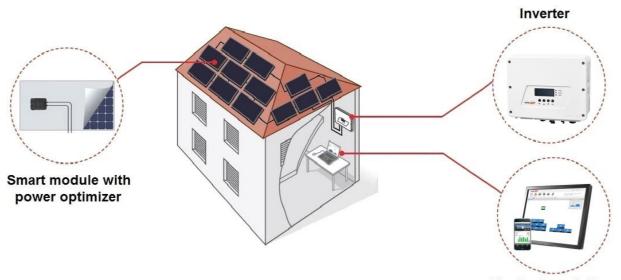


Worldwide Energy and Manufacturing USA Co., Ltd. www.weamerisolar.com, sales@weamerisolar.com

Amerisolar Smart Module

Amerisolar smart modules optimized by SolarEdge come with module-level power electronics that provide optimized power harvesting, safety, and module-level monitoring. The integrated power optimizers increase up to 25% more energy output from PV systems by constantly tracking the maximum power point (MPPT) of each module individually, and monitor the performance of each module and communicate performance data to the SolarEdge monitoring portal for enhanced, cost-effective module-level maintenance.

PV System with Smart Module



Monitoring platform

Datasheet of SolarEdge Power Optimizer (Type: OPJ300-LV)					
	Power Optimizer Connected to a	Power Optimizer Connected to a			
	SolarEdge Inverter	Non-SolarEdge Inverter			
Input					
Rated Input DC Power	330W				
Absolute Maximum Input Voltage (Voc)	55Vdc				
MPPT Operating Range	5~55Vdc				
Maximum Short Circuit (I _{SC}) of connected Module	10A				
Maximum DC Input Current	12.5A				
Maximum Efficiency	99.5%				
Weighted Efficiency	98.9%				
Overvoltage Category					
Output During Operation					
Maximum Output Current	15A 10A				
Maximum Output Voltage	60Vdc V _{oc} of Connected Modul				
Output During Standby (Power Optimizer Disconne	ected from Inverter or Inverter Off)				
Safety Output Voltage per Power Optimizer	1Vdc	1Vdc			
Standard Compliance					
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3				
Safety	IEC62109-1 (Class II safety, TUV SUD), UL1741 (TUV Rheinland & CSA)				
PV Junction Box	EN50438 (TUV SUD), UL3730 (TUV Rheinland & CSA)				
Material	UL-94 (5-VA), UV Resistant				
RoHS	Yes				

TICS AT STC	;						
250W	255W	260W	265W	270W	275W	280W	285W
38.0V	38.1V	38.2V	38.3V	38.4V	38.5V	38.6V	38.7V
8.75A	8.83A	8.90A	8.98A	9.09A	9.20A	9.31A	9.42A
30.3V	30.5V	30.7V	30.9V	31.1V	31.3V	31.5V	31.7V
8.26A	8.37A	8.47A	8.58A	8.69A	8.79A	8.89A	9.00A
15.37	15.67	15.98	16.29	16.60	16.90	17.21	17.52
	-40°C to +85°C						
	1000V DC						
	Type 1(in accordance with UL1703)/Class C(IEC61730)						
	15A						
	250W 38.0V 8.75A 30.3V 8.26A	38.0V 38.1V 8.75A 8.83A 30.3V 30.5V 8.26A 8.37A 15.37 15.67	250W 255W 260W 38.0V 38.1V 38.2V 8.75A 8.83A 8.90A 30.3V 30.5V 30.7V 8.26A 8.37A 8.47A 15.37 15.67 15.98	250W 255W 260W 265W 38.0V 38.1V 38.2V 38.3V 8.75A 8.83A 8.90A 8.98A 30.3V 30.5V 30.7V 30.9V 8.26A 8.37A 8.47A 8.58A 15.37 15.67 15.98 16.29 -40°C tr Type 1(in accordance with	250W 255W 260W 265W 270W 38.0V 38.1V 38.2V 38.3V 38.4V 8.75A 8.83A 8.90A 8.98A 9.09A 30.3V 30.5V 30.7V 30.9V 31.1V 8.26A 8.37A 8.47A 8.58A 8.69A 15.37 15.67 15.98 16.29 16.60 -40°C to +85°C 1000∨ DC Type 1(in accordance with UL1703)/Cla	250W 255W 260W 265W 270W 275W 38.0V 38.1V 38.2V 38.3V 38.4V 38.5V 8.75A 8.83A 8.90A 8.98A 9.09A 9.20A 30.3V 30.5V 30.7V 30.9V 31.1V 31.3V 8.26A 8.37A 8.47A 8.58A 8.69A 8.79A 15.37 15.67 15.98 16.29 16.60 16.90 -40°C to +85°C Type 1(in accordance with UL1703)/Class C(IEC61)	250W 255W 260W 265W 270W 275W 280W 38.0V 38.1V 38.2V 38.3V 38.4V 38.5V 38.6V 8.75A 8.83A 8.90A 8.98A 9.09A 9.20A 9.31A 30.3V 30.5V 30.7V 30.9V 31.1V 31.3V 31.5V 8.26A 8.37A 8.47A 8.58A 8.69A 8.79A 8.89A 15.37 15.67 15.98 16.29 16.60 16.90 17.21 THOUV DC

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS AT NOCT								
Nominal Power (P _{max})	184W	188W	191W	195W	199W	202W	206W	210W
Open Circuit Voltage (Voc)	35.0V	35.1V	35.2V	35.3V	35.4V	35.5V	35.6V	35.7V
Short Circuit Current (I _{SC})	7.09A	7.15A	7.21A	7.27A	7.36A	7.45A	7.54A	7.63A
Voltage at Nominal Power (V _{mp})	27.6V	27.8V	27.9V	28.1V	28.3V	28.5V	28.7V	28.9V
Current at Nominal Power (Imp)	6.67A	6.77A	6.85A	6.94A	7.04A	7.09A	7.18A	7.27A

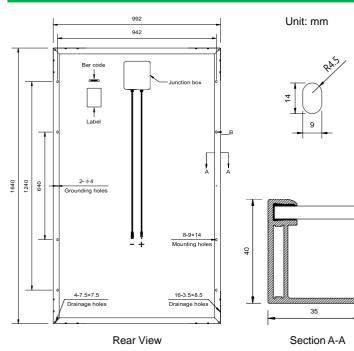
NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL CHARACTERISTICS				
Cell type	Polycrystalline 156x156mm (6x6inches)			
Number of cells	60 (6x10)			
Module dimensions	1640x992x40mm (64.57x39.06x1.57inches)			
Weight	19kg (41.9lbs)			
Front cover	3.2mm (0.13inches) tempered glass with AR coating			
Frame	Anodized aluminum alloy			
Junction box	IP67 (SolarEdge OPJ300-LV)			
Cable	6mm ² (0.009inches ²), 1000mm (39.37inches)			
Connector	MC4			

TEMPERATURE CHARACTERISTICS				
Nominal Operating Cell Temperature (NOCT)	45°C±2°C			
Temperature Coefficients of P _{max}	-0.41%/°C			
Temperature Coefficients of Voc	-0.31%/°C			
Temperature Coefficients of I _{SC}	0.05%/°C			

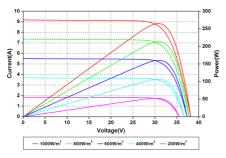
PACKAGING	
Standard packaging	26pcs/pallet
Module quantity per 20' container	312pcs
Module quantity per 40' container	728pcs(GP)/784pcs(HQ)

ENGINEERING DRAWINGS

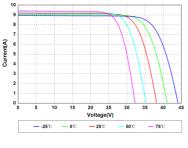


Specifications in this datasheet are subject to change without prior notice.

IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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