

315W | ND-AH315

Polycrystalline silicon photovoltaic modules

Sharp Solar. The sun is the answer.



Sharp, a leader in the solar industry: Shipping more than 12 GW globally. Sharp has more than 200MW installation reference in Thailand. (Picture: 73 MW Solar Power Plant in Lopburi by Sharp EPC)



MULTI-PURPOSE 315 WATT MODULE FROM THE WORLD'S TRUSTED SOURCE FOR SOLAR.

Using breakthrough technology, made possible by over 50 years of proprietary research and development, Sharp's ND-AH315 solar modules incorporate an advanced surface texturing process to increase light absorption and improve efficiency. Common applications include commercial and residential grid-tied roof systems as well as ground mounted arrays. Designed to withstand rigorous operating conditions, this module offers high power output per square foot of solar array.

Product features

- ◆ Positive Power Tolerance:
 Production controlled positive power tolerance from 0 to +5 %.
 Only modules will be delivered that have the specified power or more for high energy yield.
- ◆ High-performance photovoltaic modules:

 Made of polycrystalline(156 mm)² silicon solar cells with module efficiencies of up to 16.2 %.
- ◆ PID Free:
 - Sharp delivers convincing performance in independent test by Fraunhofer.
 *PID : potential-induced degradation
- 4 busbars technology for enhancing the power output

MECHANICAL DATA	ND-AH315		
Cells	polycrystalline, 156 mm square		
No. of cells and connections	72 in series(6strings)		
Dimensions ((LxWxD)	1,956×992×40 mm		
Weight	22.5 kg		
Front glass	Lowiron tempered glass, 3.2 mm		
Frame	Anodized aluminium alloy, silver		
Connection Box	IP-rating 67, 3 bypass diodes		
Cable	4mm² /1200±50 mm		
Connector	Renhe connector		

Electrical data (at STC*)			
		ND-AH315	
Maximum power	P _{max}	315 W _p	
Torerance of Pmax		+5% / -0%	
Open-circuit voltage	V _{oc}	45.6 V	
Short-circuit current	I _{sc}	9.08 A	
Voltage at point of maximum power	V_{mpp}	37.2 V	
Current at point of maximum power	I mpp	8.47 A	
Module efficiency STC = Standard Test Conditions: irradian	η _m ce 1,000 W/	16.2 % m², AM 1.5, cell temperature 25 °C	

Pm(W)	227.1	W
Pm(W)	+5%/-0%	W
Vm(V)	33.8	٧
Im(A)	6.72	Α
Voc(V)	42.2	V
Isc(A)	7.30	Α
	Pm(W) Vm(V) Im(A) Voc(V)	Pm(W) +5%/-0% Vm(V) 33.8 Im(A) 6.72 Voc(V) 42.2

NOCT: Ir	rad iance at 800W/m	² , Ambient Temperature 20℃, Wind S	pee d 1m/s.
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Limit values	ND-AH315
Maximum system voltage	1,000 V DC
Overcurrent protection	15 A
Temperature range	-40~+85°C
Maximum mechanical load	2,400 Pa

Temperature coefficient	ND-AH315		
P _{max}	-0.42	% /°C	
V _{oc}	-0.32	% /℃	
I _{sc}	+0.05	%/°C	

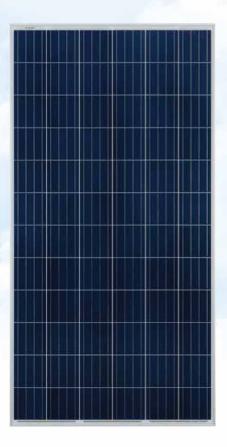
Standards and Certification

- * IEC 61215
- * IEC 61730-1/61730-2 (ed.1)
- * IEC 60904-1/60904-3



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992mm 941mm Drainage Hole 8-3.5x8mm Installing Hole 8-D9x14mm 1200mm Grounding Hole 2-Ø5.1mm Additional Reinforcing Structure If With 3.4mm Glass Back View

SHARP

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