

SUNFARMING PHOTOVOLTAIC MODULE

SF AT 280-60P HC

SF AT 285-60P HC

SF AT 290-60P HC



- High performance modules made of polycrystalline silicon cells (156.75 x 156.75 mm)
- 25 years linear performance warranty of the manufacturer
- Manufacturers product warranty for 12 years
- Certificates IEC/EN 61215, IEC/EN 61730-1,2, UL1730, CE
- All modules are plus tolerated
- Very good low irradiance performance
- constant quality control during production and in the warehouse by the manufacturer and SUNfarming
- Independent quality control of each SUNfarming container by TÜV Rheinland or PI Berlin before shipping
- All materials are of the highest quality: high transmission low iron tempered glass with strong mechanical resistance, PET back sheet foil, EVA foil and anodized aluminium frame
- Junction boxes are fully waterproof plug-in (MC4 compatible)

EXPERTISE · EXPERIENCE · QUALITY

Technical Specifications

Module name	SF AT 280-60P HC	SF AT 285-60P HC	SF AT 290-60P HC
Cell type	polycrystalline with HALF-CELL Technology		
Rated maximum power at STC[W]	280	285	290
Maximum power current [A]	8.77	8.87	8.97
Maximum power voltage [V]	31.90	32.12	32.34
Open circuit voltage [V]	38.41	38.65	38.90
Short circuit current [A]	9.27	9.34	9.43
Module efficiency [%]	16.9	17.2	17.5
Number of cells [pcs]	120 (6x20)		
Number of bypass-diodes	3		
Dimensions (L x W x H) [mm]	1675 x 992 x 35		
Front glass thickness [mm]	3.2		
Maximum system voltage [V]	1500		
Temperature-coefficient I _{sc} [%/K]	+0.0415		
Temperature-coefficient V _{oc} [%/K]	-0.2729		
Temperature-coefficient P _m [%/K]	-0.3550		
Operating cell temperature (NOCT)	44°C ± 2 °C		
Tolerance wattage [%]	-0/ +5 %		
Maximum surface load capacity [Pa]	5400		
Allowable hail load [mm; m/s]	45; 31		
Weight [kg]	18.7		
Standard test conditions	1.5 AM; 1000W/m ² ; 25°C		
Cable length (junction box) [mm]	1000		
Cable diameter [mm ²]	4		
Frame material	Aluminium, silver anodized		
Performance warranty	25 years linear performance warranty		
Packing configuration	31 pcs/ pallet , 62 pcs carton 930 pcs/ truck, 868 pcs 40' container		
Seller	Astronergy/ Chint Solar Co, Ltd. China		

Module certificates of the manufacturer

