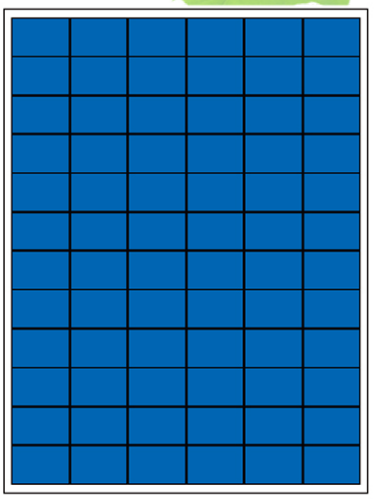
Photon
renewable energy products

100-180 WATT 36V
POLY-CRYSTALLINE MODULES



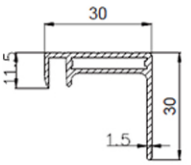
ELECTRICAL CHARACTERISTICS

	SYP-100S	SYP-120S	SYP-180S
Rated Maximum Power(Pmax)	100W± 3 %	120W± 3 %	180W± 3 %
Power Sorting	0~4.99W	0~4.99W	0~4.99W
Voltage at Pmax	36.0V	35.8V	34.7V
Current at Pmax	2.80A	3.36A	5.19A
Open - Circuit Voltage (Voc)	44.6V	44.2V	43.3V
Short - Circuit Current (Isc)	3.11A	3.73A	5.77A

Valued at STC (AM 1.5, 1000W/m²,25°c
Class A Module

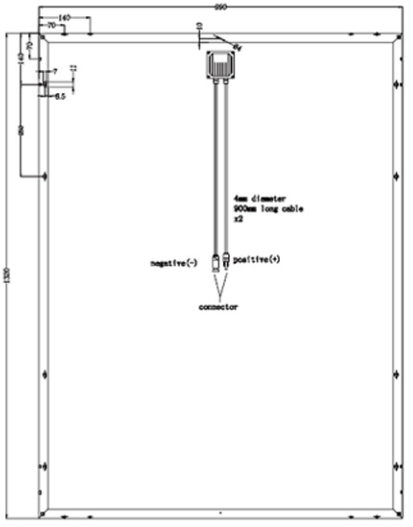
TEMPERATURE COEFFICIENTS

	SYP-100	SYP-120S	SYP-180S
Temperature coefficient of VOC(ß)		-0.39%/℃	
Temperature coefficient of ISC (a)		+0.33%/℃	
Temperature coefficient of Pmax		-0.44%/℃	
Nominal Operating Cell Temperature (NOCT)		45±2℃	



PERMISSIBLE OPERATING CONDITIONS

	SYP-100S	SYP-120S	SYP-180S
Maximum system voltage		DC1000V	
Operating temperature		-40~+85℃	
Snow Load		Max 5400 Pa	
Wind Load		Max120km/h	



MECHANICAL CHARACTERISTICS

	SYP-100S	SYP-120S	SYP-180S
Number of poly crystalline solar cells		72pcsx(156mmx104mm)	
Aluminum frame, dimensions	1030x680x30mm	1240x680x30mm	1320x990x35mm
Glass thickness		3.2mm	
Weight	8.0kg	9.6kg	15.0kg
Junction box		IP65	
Module		IP65	
Tolerance of Rating		-3%~+3%	
Number of bypass diodes		3	