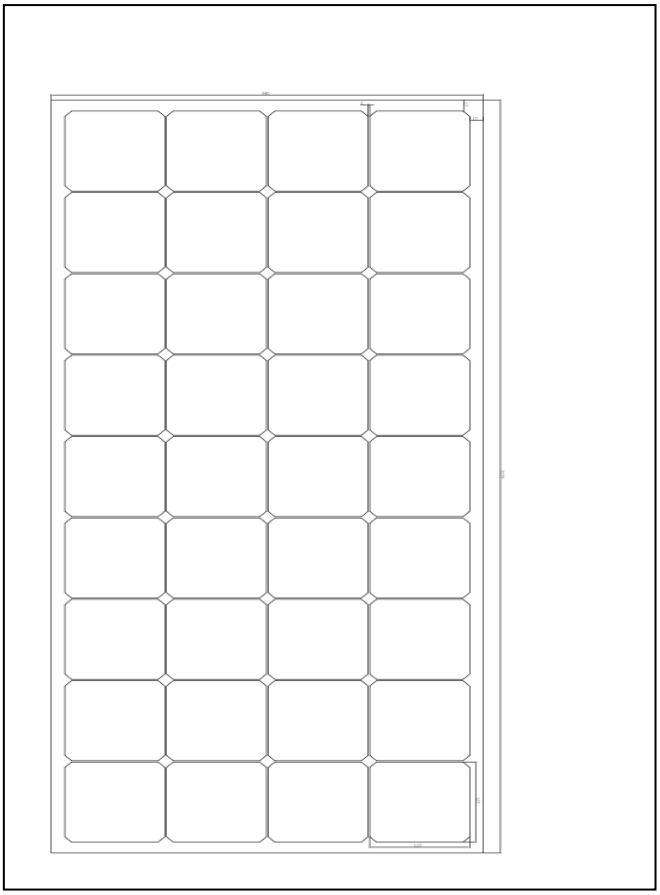
ETFE Cover Flexible Solar Panel

ETFE Semi Flexible Solar panels with resistance to fire, dust and corrosion. Security is more secure,The maximum system voltage is 1000VDC.Unique ETFE design, based on direct light, higher light utilization and less shadow.These flexible solar panel is made of strong ETFE material which has a longer service life compared to standard semi-flexible solar panels. As a result, these particular flexible solar panels are extremely robust and less prone to cracking , delamination and corrosion. The lightly textured coating of this panel creates an anti-reflective surface which allows the panel to absorb a far greater amount of light, thereby increasing efficiency. ETFE material has long been used in applications where durability and high-temperature resistance is required, such as in the Eden Project, Cornwall..

Typical Electrical Characteristics

Model		ETPV--110M
Max-power(Pm)		**110W**
Power Tolerance	(%)	+/-3
Max-power Voltage(Vmp)	(V)	18V
Max-power Current(Imp)	(A)	6.11
Open-circuit Voltage(Voc)	(V)	21.2V
Short-circuit Current(Isc)	(A)	6.65
No .of Cells(Array)	(Pcs)	4x9
Cell Size	(mm)	125x125
Cell Efficiency(ηc)	(%)	19.85
Pm Temperature Coefficient		-0.45%/℃
Voc Temperature Coefficient		-0.35%/℃
Isc Temperature Coefficient		0.05%/℃
NOCT		48℃+/-2℃
Maximum System Voltage		1000VDC(IEC)



Mechanical Characteristics

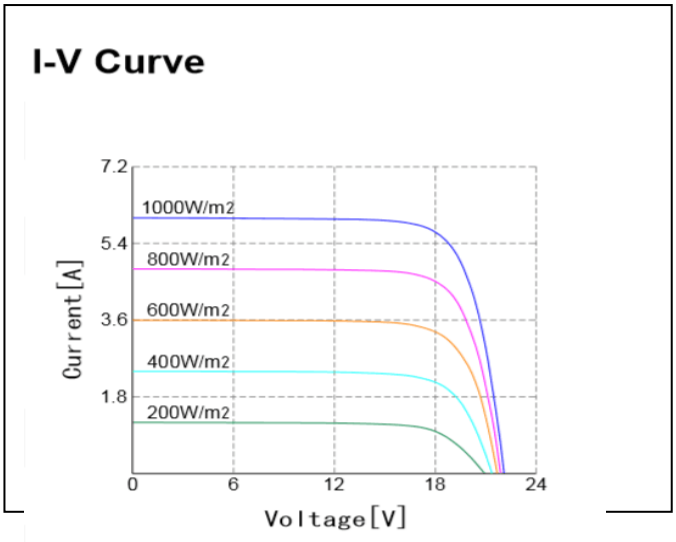
Weight	2.00 kg
Dimension	1175x540x2.5mm (Tolerance:+/-0.5mm)

Junction Box

IP Rating	IP68
Number of Diodes	1 diodes
Output Cables	3000MM 1.5m2 cables

MC4 connectors

Rated Current	30A
Max Voltage	1000VDC
Max AWG Size Range	10AWG
Temperating Range	-40°F to 194°F
IP Rating	IP67



***All specifications and data described in this data sheet are tested under Standard Test Conditions (STC - Irradiance: 1000W/m2 , Temperature: 25 C, Air Mass: 1.5) and may deviate marginally from actual values.**