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Solar Panel Guide Specification Data Sheet

Silicon Leaf Solar

S6-72

S6-72-295

Also available on the web at
EnergyPal.com/silicon-leaf-solar-solar-panels/s6-72-295



SILICON LEAF

Renewable Energy - An ISO 9001 : 2015 Certified Company



PV Module S6-72



High Efficiency PV Modules

Strengths

- Positive power tolerance
- High Efficiency Mono Crystalline Modules
- ETL Certifications:
 - EN IEC 61215 : 2005
 - EN IEC 61730-1 : 2004 / 2007
 - EN IEC 61730-2 : 2004 / 2007
- Qualified for Extended Mechanical
 - Load test up to 5400 Pascal : EN IEC 61215
- Withstands heavy loading due to snow & ice;
 - Has higher safety margin for storm weather and gale winds
- UL Certification:
 - ANSI / UL 1703 (USA & Canada)
- California Energy Commission Listed

Product Guarantee : 5 years

Limited Power Warranty : 90% @ 12 Years
80% @ 25 Years

Typical Electrical Characteristics

Type	S6-72				
Max Power	Pmp (W)	285	290	295	300
Power Tolerance	(W)	+0 to 4.9 Wp or $\pm 2.5\%$			
Max Power Voltage	Vmp(V)	35.36	35.92	36.34	36.55
Max Power Current	Imp (A)	8.06	8.08	8.12	8.21
Open Circuit Voltage	Voc (V)	44.64	44.71	44.85	45.00
Short Circuit Current	Isc (A)	8.64	8.67	8.71	8.79
Electrical parameters tolerance		$\pm 5\%$			
Max System Voltage	VDC	1000			
Number, type and arrangement of cells		72, Mono-Crystalline, 12 x 6 Matrix			
Cell Size		6" x 6" / 156 x 156 mm			
No. of By-pass Diodes		3			
Max. Series Fuse	(A)	15			
Pm Temperature Co-efficient (γ)	(%/°C)	-0.46			
Isc Temperature Co-efficient (α)	(%/°C)	+0.03			
Voc Temperature Co-efficient (β)	(%/°C)	-0.36			
NOCT at STC	(°C)	45 \pm 1			

Mechanical Characteristics

Junction Box	Huber + Suhner
Type of connector	MC4
Dimensions (Lx W xTh)mm	1975 x 988 x 50
WeightKg	27.0
No. of Drain Holes in Frame	12
Glass Type and Thickness	4 mm Thick, Low iron, Tempered

Packing Configuration

Packing Configuration	23 Modules in each pallet
1 * 20 Ft	230 Modules
1 * 40 Ft STD/HQ	460 Modules

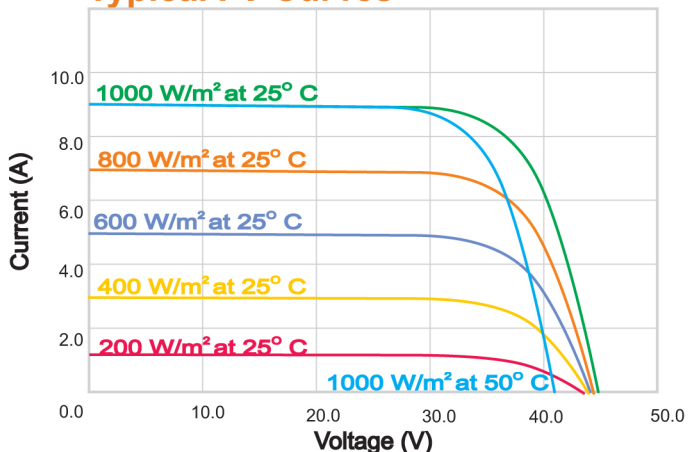
Absolute Ratings

Operating Temperature	(°C)	-40 ~ +85
Storage Temperature	(°C)	-40 ~ +85

NOTE: The data presented may change due to further improvements in the product.

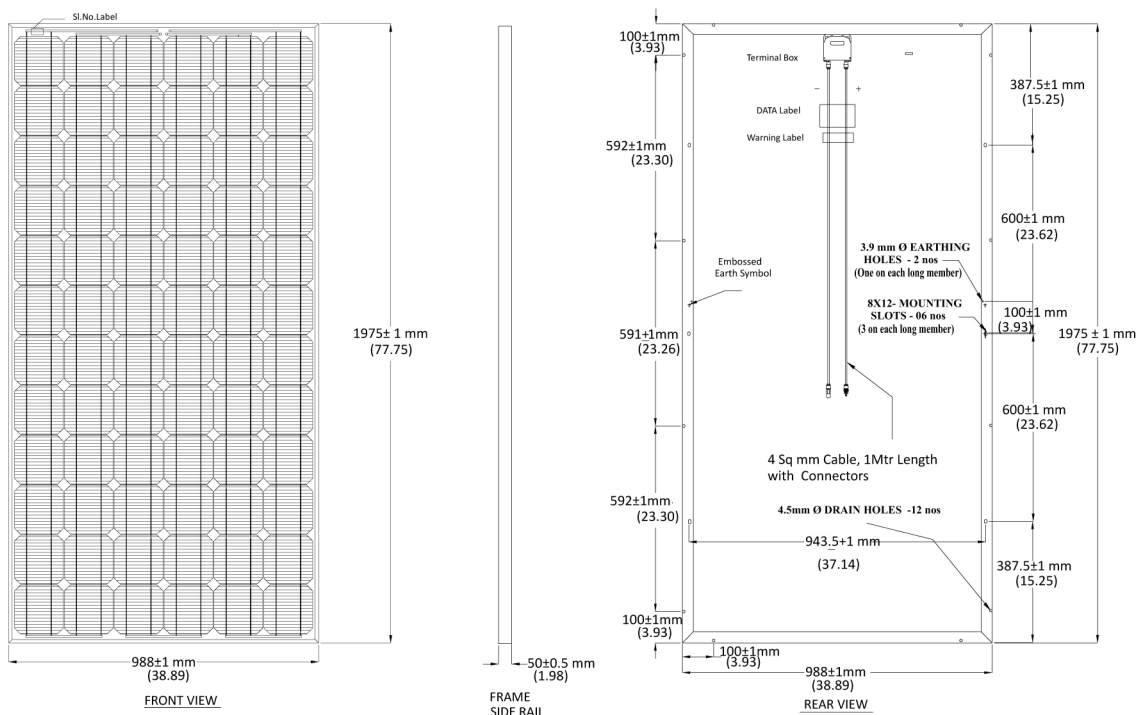
PV Module S6-72

Typical I-V Curves



Current/voltage dependence on irradiance and module temperature. These I-V curves indicate the effect of temperature and light intensity on module Performance.

Dimensions



Dimensions given in Parentheses are in inches

PV Module Products

- M6-72 Family Series (305Wp to 125Wp) : M6-72, M6-60, M6-54 & M6-36 - Certified for IEC Standards
M6-60: Certified for UL (USA & Canada) Standard; M6-72: Certification for UL (USA & Canada) is in Progress
- S6-60 Family Series (250Wp to 120Wp) : S6-60, S6-54 & S6-36 - Certified for IEC Standards
S6-60 & S6-54 - Certified for UL (USA & Canada) Standard
- S6-72 Family Series (300Wp to 285Wp) : Certification for IEC & UL (USA & Canada) Standards
- S5-96 Family Series (250Wp to 75Wp) : S5-96, S5-72, S5-60, S5-54 & S5-36 - Certified for IEC Standards



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