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Solar Panel Guide Specification Data Sheet

Flisom AG
eMetal 2.3m
SF 90

Also available on the web at
EnergyPal.com/flisom-ag-solar-panels/sf-90

SUNSHINE CIGS SERIES

130~170 Watt

WORLD'S LARGEST CIGS THIN FILM SOLAR MODULE

Excellent power output with high product quality and cost efficiency
Certified according to the standards of IEC 61646 and IEC 61730



Mechanical Characteristics	
Size	1100mm x 1400mm
Weight (w/back rail, w/o back rail)	33kg / 28.5kg
Depth	7.7mm
Type of Frame	Frameless
Front Cover	Tempered glass
Back Cover	Float glass
Encapsulation	Glass / EVA / Glass
Snow/Wind Load (IEC)	2400Pa (w/o back rail), 5400Pa (w/ back rail)
Junction box, Connector	IP 67, MC-4 compatible
Output Cable	14 AWG (2.5mm ²)
Cell Type	162 CIGS Cells
Safety Class	II
Fire Rating	Class C

Loading Capacity	
20 ft container	150 pcs (6 pallets)
40 ft container	350 pcs (14 pallets)
40 ft HQ container	700 pcs (28 pallets)

* Module per pallet : 25pcs

Warranty

Product Guarantee

Warranty of the Materials and the Workmanship for 10 years.

Power Guarantee

90% of the minimal rated Power Output for 10 years after shipment.

80% of the minimal rated Power Output for 20 years after shipment.

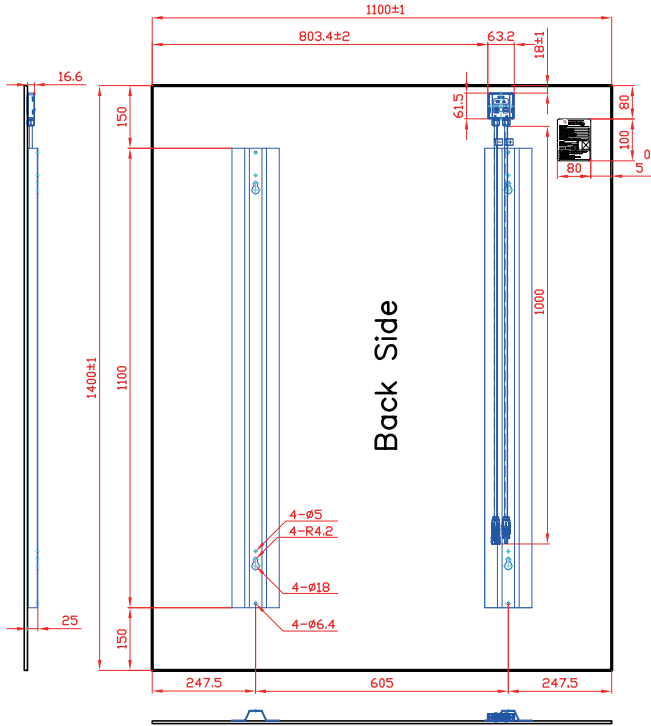


ISO 9001:2008

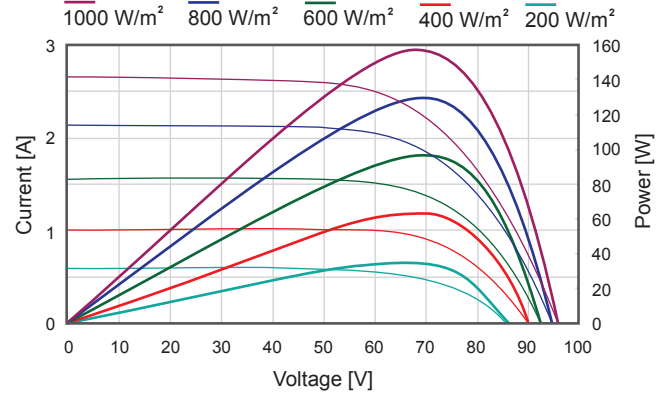


CIGS THIN FILM SOLAR MODULE

Physical Specification Unit : mm



I-V and P-V Curve (SS1114150K)



Outstanding Product Appearance

- Ground Solar Power Plant
- Frameless
- Sleek black
- BIPV Application

Sunshine CIGS Series	SS1114130K	SS1114135K	SS1114140K	SS1114145K	SS1114150K	SS1114155K	SS1114160K	SS1114165K	SS1114170K
Power Output (Pmpp)	130Wp	135Wp	140Wp	145Wp	150Wp	155Wp*	160Wp*	165Wp*	170Wp*
Max. Power Voltage (Vmpp)	61.35V	63.08V	64.19V	65.85V	67.48V	69.39V	70.65V	72.01V	73.65V
Max. Power Current (Impp)	2.16A	2.18A	2.22A	2.24A	2.26A	2.27A	2.30A	2.32A	2.34A
Open Circuit Voltage (Voc)	88.15V	89.82V	90.06V	91.84V	92.90V	93.92V	95.29V	96.01V	97.36V
Short Circuit Current (Isc)	2.63A	2.62A	2.65A	2.63A	2.63A	2.62A	2.65A	2.65A	2.66A
Max. System Voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Power Tolerance	+5%								
Maximum System Voltage	1000Vde (IEC)								
Operating Temperature	-40°C to 85°C								

Measured under Standard Testing Conditions (STC)

* TUV certification in progress

