



ARKSOL Series

BIPV Solar Modules for Shutters

ARKSOL 7 - ARKSOL 18



KEY FEATURES

- ◆ Dual stage 100% EL Inspection warranting defect-free product
- ◆ Positive power tolerance 0 ~ +3%
- ◆ High quality IP68 potted junction box for long life time
- ◆ Reference module calibrated by Fraunhofer Institute (Germany)

MANAGEMENT SYSTEM

- ISO 9001 Quality management system
- ISO 14001 Standard for environmental management system
- OHSAS45001 International standard for occupational health and safety assessment system

WARRANTY

25 - Year linear PV power output warranty

Electrical characteristics at STC (1000W/m2, (25±2)°C, AM 1.5 according to IEC 60904-3)

Number of cells	7	8	9	10	11	12	13	14	15	16	17	18
Nominal Power (P _{max})	32	37.25	42.5	47.75	53	58.25	63.5	68.75	74	79.25	84.5	89.75
Open Circuit Voltage (V _{oc})	4.85	5.54	6.23	6.92	7.61	8.30	8.99	9.68	10.37	11.06	11.75	12.44
Short Circuit Current (I _{sc})	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97
Voltage at Nominal Power (V _{mp})	3.47	4.02	4.57	5.12	5.67	6.22	6.77	7.32	7.87	8.42	8.97	9.52
Current at Nominal Power (I _{mp})	9.27	9.34	9.36	9.38	9.4	9.42	9.44	9.45	9.46	9.47	9.48	9.49
Module dimension (length) ,Lx182x37	1200	1360	1520	1680	1840	2000	2160	2320	2480	2640	2800	2960
Weight (KG)	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3	3.2	3.4

Electrical characteristics at NMOT (Irradiance at 800W/m2, Ambient Temperature 20°C, Wind Speed 1m/s)

Nominal Power (P _{max})	24.82	28.96	33.1	37.24	41.38	45.52	49.66	53.68	57.82	61.96	66.10	70.24
Open Circuit Voltage (V _{oc})	4.48	5.10	5.72	6.34	6.96	7.58	8.20	8.82	9.44	10.06	10.68	11.3
Short Circuit Current (I _{sc})	8.06	8.06	8.06	8.06	8.06	8.06	8.06	8.06	8.06	8.06	8.06	8.06
Voltage at Nominal Power (V _{mp})	3.33	3.83	4.33	4.88	5.43	5.98	6.53	7.08	7.63	8.18	8.73	9.28
Current at Nominal Power (I _{mp})	7.50	7.56	7.64	7.63	7.62	7.62	7.69	7.61	7.58	7.57	7.57	7.57

*Specifications are subject to change without notice; *Power production tolerance: -0%;+3% , Voc production tolerance ±3%, Isc production tolerance ±3%

Construction materials

Engineering Drawings

Solar cells	Monocrystalline PERC 5BB 158.75x158.75 mm	(NMOT)	43°C ± 2°C
J-Box	IP68, 1000DC,	Temperature coeff P _{max}	-0.37% / °C
Cables	4.0mm ² (12AWG). 1200mm length (customer demand)	Temperature coeff V _{oc}	-0.34% / °C
Connector	IP67 QC4	Temperature coeff I _{sc}	0.06% / °C
		Maximum System Voltage	1000V
Maximum Snow Load	1600 Pa	Maximum Series Fuse Rating	15A
Maximum Wind Load	1600 Pa	Maximum operating temp.	-40°C +80°C



BIPV Category E (according to IEC 63092-1)

