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Solar Panel Guide
Specification Data Sheet

Qingdao Hinergy New Energy Co., Ltd.
Sunpower Flexible Solar Panel
HN-FSP-95-18

Also available on the web at
EnergyPal.com/qingdao-hinergy-new-energy-co-ltd-solar-panels/hn-fsp-95-18

SEMI-FLEXIBLE SOLAR PANELS
SUNPOWER SERIES

HINERGY
Light up the World

Pre-drilled holes on panels for fast mounting with Corrosion Test

Junction box with diodes, make charging safer

Safety MC4 connector with a pair of 31 inches cables

MECHANICAL PARAMETERS

Solar Cells	Monocrystalline 125 x125 mm (5")
Surface Sheet	PVDF / PET
Encapsulation	Ethylene Vinyl Acetate (EVA)
Bottom Sheet	Tedlar-Polyester-Tedlar (TPT)
Bottom Sheet	Tedlar-Polyester-Tedlar (TPT)
Junction Box	≥IP65 Rated with Diodes
Cables	4mm²x 900 mm
Connectors	MC4 Connector

TEMPERATURE RATINGS

Nominal Operating Cell Temperature	47°C ±2°C
Temperature Coefficient of Pmax	-0.38%/℃
Temperature Coefficient of Voc	-0.28%/℃
Temperature Coefficient of Isc	+0.06%/℃

PERFORMANCE UNDER STANDARD TEST CONDITION (STC)*

Flexible Solar Panel Model	Power (Wp)	Solar Cell Array	Size: MM (L x W x H)	Vmp (V)	Imp (A)	Voc (V)	Isc (A)	C-Eff. (%)	#Eyelet (PCSxØ)	Weight (KG)
HN-FSP-85-16	85	4*7=28	922*540*3	15.40	5.52	18.8	6.07	18.80%	6 x Ø8	1.75
HN-FSP-90-18	90	5*6=30	808*669*3	16.60	5.42	19.9	5.96	20.40%	6 x Ø8	1.80
HN-FSP-95-18	95	4*8=32	1060*540*3	17.50	5.43	21.2	5.97	20.20%	6 x Ø8	1.85
HN-FSP-100-18	100	4*8=32	1060*540*3	17.70	5.70	21.7	6.1	21.30%	6 x Ø8	1.85
HN-FSP-110-20	110	4*9=36	1185*540*3	19.50	5.63	23.5	6.02	20.50%	6 x Ø8	2.25
HN-FSP-120-22	120	4*10=40	1315*540*3	22.10	5.43	26.5	5.85	19.10%	6 x Ø8	2.45
HN-FSP-130-22	130	4*10=40	1315*540*3	22.40	5.81	26.8	6.39	21.00%	6 x Ø8	2.60
HN-FSP-135-24	135	4*11=44	1445*540*3	24.20	5.58	29.3	6.03	18.90%	6 x Ø8	2.60
HN-FSP-140-24	140	4*11=44	1445*540*3	24.50	5.71	29.4	6.28	19.30%	6 x Ø8	2.60
HN-FSP-145-26	145	6*8=48	1060*796*3	26.40	5.49	31.6	6.04	19.50%	6 x Ø8	2.68
HN-FSP-150-26	150	6*8=48	1060*796*3	26.80	5.60	32.1	6.15	21.30%	6 x Ø8	2.68
HN-FSP-180-32	180	6*10=60	1315*796*3	32.90	5.48	39.8	5.85	20.40%	6 x Ø8	3.00
HN-FSP-180-18	180	6*10=60	1315*796*3	16.80	10.71	20.3	11.57	20.40%	6 x Ø8	3.00
HN-FSP-200-36	200	6*11=66	1445*796*3	36.30	5.51	43.7	6.06	21.30%	6 x Ø8	3.30

*STC: Irradiance 1000W/m 2 , Module Temperature 25℃, Air Mass 1.5

WORKING CONDITIONS

Maximum System Voltage	DC 600 V (IEC)
Operating Temperature	-40 °C~ +85 °C
Maximum Series Fuse	10 A
Application Class	Class A
Tolerance	0-+5 %

PERFORMANCE WARRANTY

3 years for product defects in material & workmanship.
At least 90% of minimal rated power output in 10 years.
At least 80% of minimal rated power output in 25 years

CERTIFICATES

CE RoHS ISO

WARNING:
Modules generates electricity when expose to sunlight.
Be careful of dangerous high DC voltage while connecting connectors.