



URE

United Renewable Energy Co., Ltd.

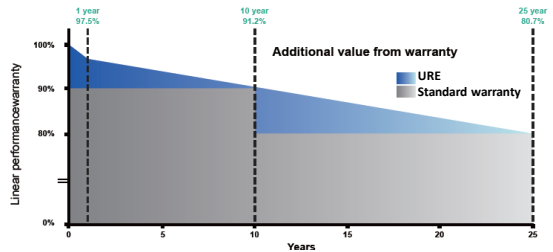
EN



F7M_H7A 300W – 320W

Half-cut cell Mono-Crystalline PV Module
(Black Appearance)

Reliability with Warranty



Output warranty
25
Years

Product Guarantee
10
Years

Key Features



Positive power tolerance
+0 ~ +4.99 watt



100% EL inline inspection
Better module reliability



Withstand heavy loading
front load 5400 Pa & rear load 2400 Pa



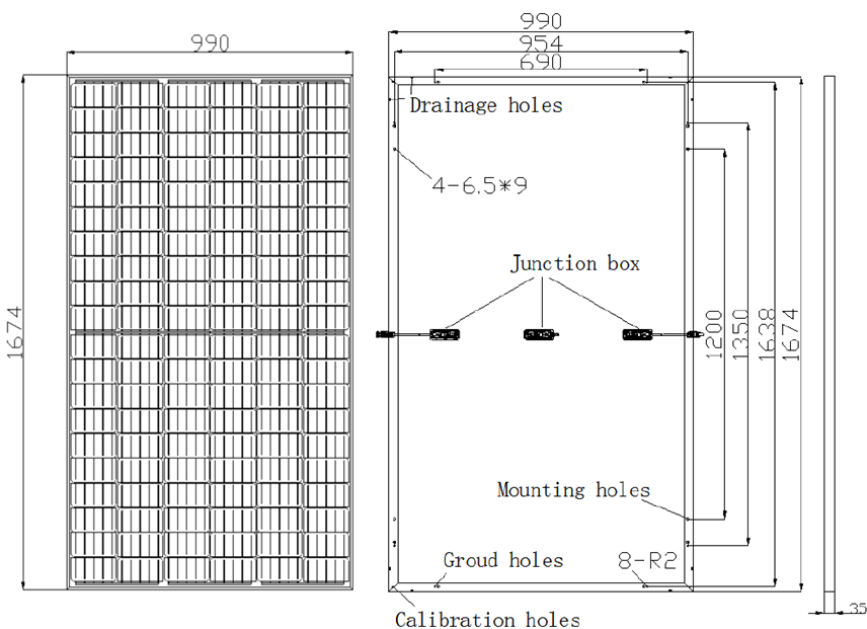
Ammonia resistance



URE United Renewable Energy Co., Ltd.
聯合再生能源股份有限公司

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Half-cut cell Mono-Crystalline PV Module



Mechanical Characteristics

Number of cells (pcs)	120
Size of cell (mm)	156.75*78.375
Type of cell	Mono
Thickness of glass (mm)	3.2
Type of frame	Anodized aluminum alloy
Junction box	IP67
Size of module (mm)	1674*990*35
Weight (kg)	18.8
Cables/connectors	PV1-F,4mm ² , MC4 compatible

Maximum Ratings

Operating Temperature(°C)	-40~85
Operating Humidity(%)	5~85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

Packing Configuration

Pieces per pallet	30
Size of packing (mm)	1714*1120*1140
Weight of packing (kg)	609
Pieces per container	780
Size of container	40' HC

Electrical Characteristics

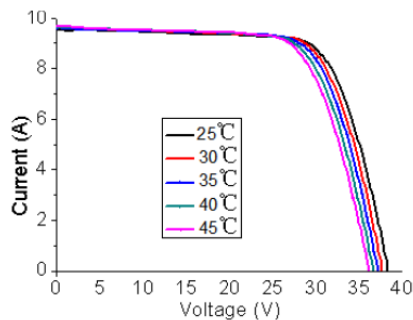
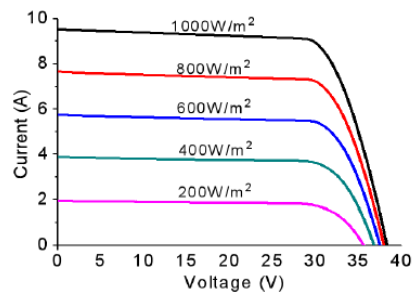
STC	F7M300H7A	F7M305H7A	F7M310H7A	F7M315H7A	F7M320H7A
Pmax (W)	300	305	310	315	320
Vmp (V)	33.23	33.34	33.70	33.99	34.23
Imp (A)	9.03	9.15	9.20	9.27	9.35
Voc (V)	40.00	40.33	40.60	40.82	41.13
Isc (A)	9.50	9.59	9.68	9.76	9.84
Module efficiency (%)	18.1	18.4	18.7	19.0	19.3
Maximum system voltage (V)	1000				
Fuse Rating Current (A)	15				
Power tolerance (%)	0~+3				
Temperature coefficient	Pmax (%/°C)	-0.390			
	Isc (%/°C)	0.039			
	Voc (%/°C)	-0.295			

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

NOCT	F7M300H7A	F7M305H7A	F7M310H7A	F7M315H7A	F7M320H7A
Pmax (W)	221	225	229	233	237
Vmp (V)	31.99	32.33	32.58	32.82	33.11
Imp (A)	6.91	6.96	7.03	7.10	7.16
Voc (V)	38.83	39.29	39.56	39.74	40.10
Isc (A)	7.26	7.31	7.38	7.46	7.53
Power tolerance (%)	±3%				

NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

I-V Curves



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Taipei Office

9F, No. 295, Sec. 2, Tiding Blvd.,
Neihu Dist., Taipei 11493, Taiwan
Tel : +886-2-2656-2000
Fax : +886-2-2656-0593

Headquarters

No. 7, Li-Hsin 3rd Road, Hsinchu Science Park
Hsinchu city 30078, Taiwan
Tel : +886-3-578-0011
Fax : +886-3-578-1255