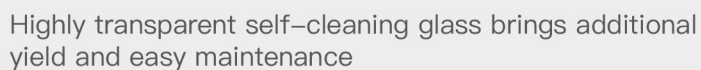
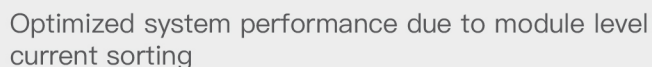
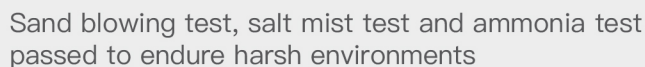
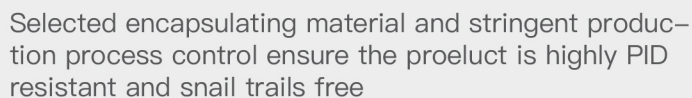
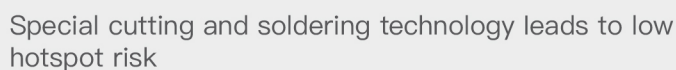
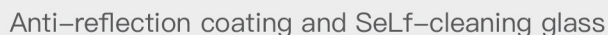


IN CA



SINOTEC
SOLAR

**144 Half Cut Cell
Mono Bi-Facial Modules
520W–555W**



555W

21.50%

- ISO 9001 Quality management system certifi and ISO 14001 Environmental management system certificate
- ISO 45001 International standards for occupational health and safety
- IEC 61215 and IEC 61730 A level certification



Type		ISM7-SHDB144-520/M		ISM7-SHDB144-525/M		ISM7-SHDB144-530/M		ISM7-SHDB144-535/M
Max. Power (Pmax)	W	STC	NOCT	STC	NOCT	STC	NOCT	STC
		520	392	525	396	530	400	535
Opt. Operating Current (Imp)	A	12.74	10.39	12.81	10.45	12.87	10.51	12.94
Opt. Operating Voltage (Vmp)	V	40.85	37.72	41.02	37.92	41.20	38.09	41.38
Short Circuit Current (Isc)	A	13.72	11.11	13.80	11.19	13.87	11.26	13.95
Open Circuit Voltage (Voc)	V	49.24	46.55	49.44	46.75	49.63	46.96	49.84
Module Efficiency		20.2%		20.4%		20.6%		20.8%
Module Power Tolerance								
Operating Temperature								
Max. System Voltage								
Max. Nominal Fuse Current								
Application Level								
STC Irradiance 1000W/m²								
NOCT Irradiance 800W/m²,Module Temperature 45℃								

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature	41±2 °C
Temperature Coefficient (Pmax)	-0.35%/°C
Temperature Coefficient (Voc)	-0.27%/°C
Temperature Coefficient (Isc)	+0.045%/°C

PACKAGING SPECIFICATION

Container	40HQ
Module quantity per pallet	31
Pallet quantity per container	20
Module quantity per container	620

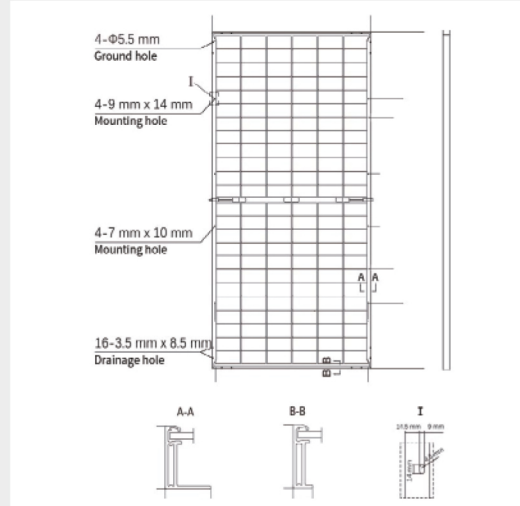
MECHANICAL DATA

Dimensions	2278 x 1134 x 35 mm
Weight	28.5 ± 0.5kg
Module composition	144 (6*24)
Front glass thickness	3.2 mm high transparency,AR coating,thermal reinforced glass
Frame Material	Aluminum,silver anodized
J-Box	IP68,3 diodes
Cable	Portrait:300 mm ; Landscape:1400 mm ,4 mm ² /12 AWG
Connector	MC Compatible / MC4-EVO2 (optional)

PERFORMANCE UNDER LOW IRRADIATION

industry-leading performance under low irradiance conditions. The module efficiency of irradiance 200W/m is above 96.5% of the irradiance 1000W/m module efficiency.

ENGINEERING DRAWINGS



I-V CURVES OF PV MODULE



ISM7-SHDB144-535/M		ISM7-SHDB144-540/M		ISM7-SHDB144-545/M		ISM7-SHDB144-550/M		ISM7-SHDB144-555/M	
STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
35	404	540	408	545	412	550	416	555	420
94	10.56	13.00	10.61	13.06	10.67	13.12	10.73	13.18	10.79
37	38.27	41.57	38.45	41.76	38.64	41.95	38.81	42.14	38.96
95	11.33	14.02	11.41	14.09	11.48	14.47	11.56	14.24	11.63
83	47.15	50.02	47.36	50.21	47.55	50.41	47.74	50.59	47.93
20.8%		21.0%		21.1%		21.3%		21.5%	

± 3%

-40°C ~ +85°C

1500VDC(IEC)

30A

A

2,Module temperature 25°C,AM 1.5

temperature 20°C,AM 1.5,Wind speed 1m/s