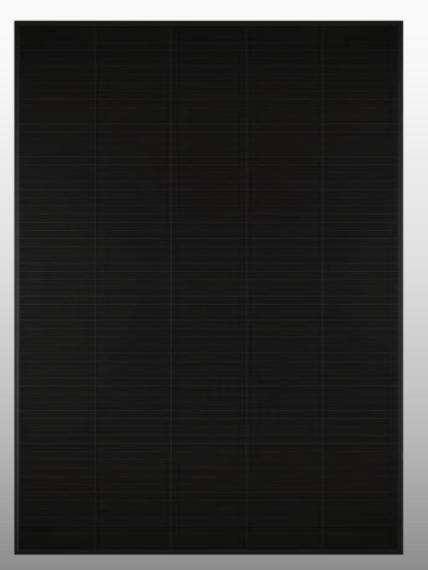
Shingling monofacial module



Advantages

Shingling Technology

•Innovative structure, low-temperature adhesive bonding, highdensity layout.

Super Safety and Reliability

•No hidden welding crack, low operating temperature, high pressure resistance.

Eco-Friendly

•Adhering to the green philosophy, fluorine-free and low-lead.

Low Hot Spot Risk

• Parallel circuit design reduces shading loss.

Low Shading Loss

•Full parallel arrangement brings higher efficient generating hours.

Low System Cost

•High module efficiency, reducing system cost







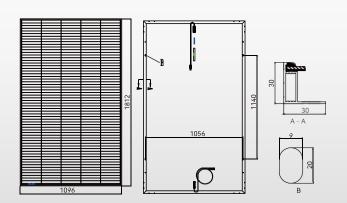
SHINGLED 210 wafer

SHINGLE

UP-S400-425MB

Maximum power of the SHINGLED series : 670W





Mechanical Data

1812 × 1096 × 30mm
20.8kg±3%
tempered glass, 3.2mm
Anodized aluminum profile
Mono-crystalline solar ce ll
305 (61 × 5)
IP68, two diodes; Connector : Staubil EVO2
4mm²,+300mm/–1000mm(Vertical), +220mm/–180mm(Horizontal)
30pallets : 36pcs/ pallet + 2 pallets : 30pcs/ pallet

SHINGLED

Electrical data(STC)

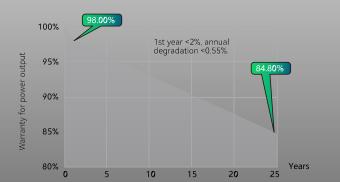
UP S 410-425 MB	425	420	415	410	405	400
Maximum Power: Pmax [W]	425	420	415	410	405	400
Open Circuit Voltage: Voc [V]	41.7	41.6	41.5	41.4	41.3	41.2
Short Circuit Current: Isc [A]	13.03	12.92	12.80	12.65	12.53	12.41
Voltage at Maximum Power: Vmp [V]	34.6	34.5	34.4	34.4	34.3	34.2
Current at Maximum Power: Imp [A]	12.30	12.19	12.08	11.93	11.82	11.71
Module Efficiency: η [%]	21.4	21.1	20.9	20.6	20.4	20.1

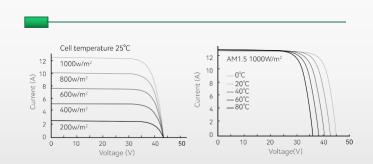
Electrical data(NOCT)

Maximum Power: Pmax [W]	320	316	312	309	305	301	
Open Circuit Voltage: Voc [V]	39.8	39.7	39.6	39.5	39.4	39.3	
Short Circuit Current: lsc [A]	10.50	10.41	10.31	10.19	10.09	10.00	
Voltage at Maximum Power: Vmp [V]	33.0	32.9	32.8	32.8	32.7	32.6	
Current at Maximum Power: Imp [A]	9.70	9.62	9.53	9.41	9.33	9.24	

Standard Test Conditions [STC] in advance 1000 W/m², AM 1.6; inbient temperature 25°C according to EN 60904–3. Nominal Module Operating Temperature (MMOT) Inradiance 1000 m², wind speed Ten%, ambient temperature 20°C. To erance of Pm. 0++5W. Measuring uncertainty of power; ±3%, erformance deviation of Voc [V], Isc [A], Vm [V] and Im [A]; ±3%,

Linear Power Output Warranty





Quality Management System and Product Certification

IEC61215/61730、IEC62804(PID)、IEC61701(Salt)、 IEC62716 (Ammonia)、IEC60068-2-68(Sand) ISO 9001:2015 / quality management system ISO 14001:2015 / environmental management system ISO 45001:2018 / occupation health safety management system ISO 50001:2011 / energy management system IEC TS 62941-2016 / PV industry quality management system

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Temperature Ratings

NMOT	42.30 °C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pm	-0.34%/°C
Maximum System Voltage [V]	DC1500 (IEC)
Series Fuse Rating [A]	25
Maximum Surface Load Capacity [Pa]	Front 5400 / Back 2400
Temperature Range [°C]	-40 ~ + 85
Withstanding Hail	Maximum diameter of 25mm with impact speed of 23m/s