



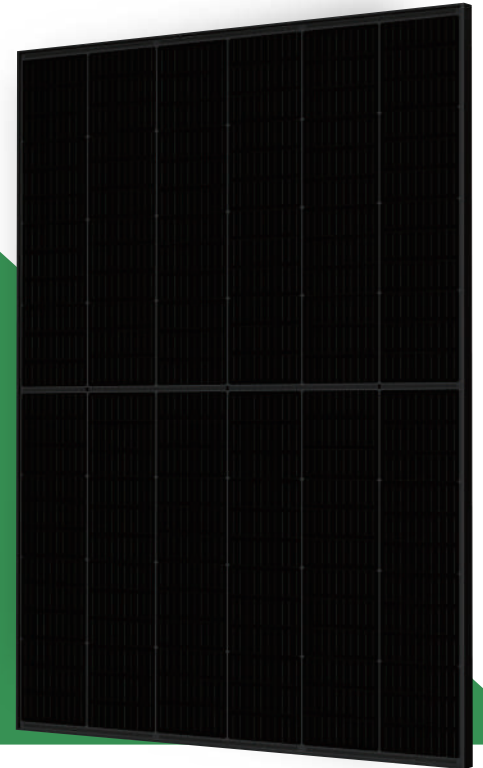
Huge-solar

Obsidian Series

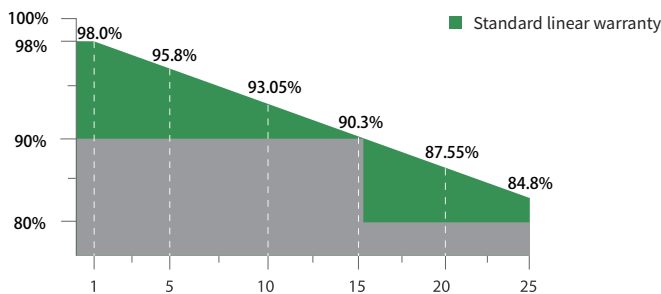
M1821T648-405-425W

405-425W Mono

Black frame, black backsheet, full black solar panel with 210mm*182mm monocrystalline silicon wafer, more elegant. High reliability, high-quality materials and advanced manufacturing processes ensure the consistently performance over time, even in harsh environmental conditions. The third-cell configurature makes less shading effect, lower risk of hot spot, as well as more reliable and stable power generation.



Linear performance Warranty



Linear performance warranty



Product warranty

Comprehensive Certificates

CERTIFICATION

- IEC61215/IEC61730
- ISO9001:Quality Management System
- ISO14001:Environmental Management System
- ISO45001:Occupational Health and Safety Management System



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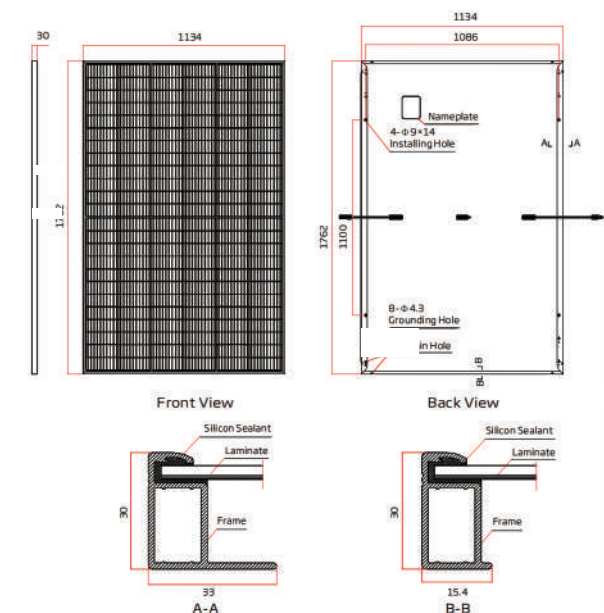
Electrical Specificatio											
Module Type		M1821T648-405W		M1821T648-410W		M1821T648-415W		M1821T648-420W		M1821T648-425W	
Test Standards		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	P _{max} (W)	405	306	410	309	415	312	420	317	425	321
Maximum Power Voltage	V _{mp} (V)	41.3	38.3	41.5	38.5	41.7	38.7	42	39.2	42.2	39.5
Maximum Power Current	I _{mp} (A)	9.82	7.99	9.87	8.03	9.94	8.07	10.1	8.10	10.08	8.13
Open Circuit Voltage	V _{oc} (V)	49.7	46.8	49.8	46.9	50.0	47.1	50.1	47.1	50.2	47.2
Short Circuit Current	I _{sc} (A)	10.50	8.46	10.53	8.49	10.55	8.50	10.58	8.53	10.61	8.55
Module Efficiency	(%)	20.3		20.5		20.8		21.0		21.3	
Power Output Tolerance	(W)	0±5									
Tolerance During Power Test	(%)	±3									

*(STC)*irradiance 1000W/m², Module Temperature 25 C, Air Mass 1.5
 *(NOCT)*irradiance 800W/m², Ambient Temperature 20 C, Wind Speed 1m/s

Mechanical Data	
Number of Cells	144Cells
Dimensions of Module L*W*H (mm)	1762×1134×30mm
Weight (kg)	21.8kg
Glass	3.2 mm High Transmission,
	AR Coated Heat Strengthened Glass
Encapsulant material	EVA/POE
Backsheet	Black-White
Frame	30mm Anodized Aluminium Alloy
J-BOX	IP68 rated
Cable	Photovoltaic Technology Cable 4.0mm ²
	Portrait: 350/280 mm
	Length can be customized
Connector	MC4 EVO2/TS4*
*Please refer to regional datasheet for specified connector	

Temperature Ratings	
Temperature Ratings	43(±2 C)
Temperature Coefficient of P _{MAX}	-0.34%/ C
Temperature Coefficient of Voc	-0.25%/ C
Temperature Coefficient of Isc	-0.04%/ C
Maximum Ratings	
Operational Temperature	-40 - +85 C
Maximum System Voltage	1500V DC(IEC)
Max Series Fuse Rating	20A
Packaging Configuration	
Module per box	36pieces
Module per 40' container	936pieces

ENGINEERING DRAWINGS



IV CURVES

