ZOEAST

ZEM-510-108BC SERIES

Half-Cell BC Mono Black Module
Powr Range 480-510

Up to **24.98%**



30 year
Product Warranty

30 year
Power Warranty

Full Black Design

No grid lines on the front

Higher Power Output

Higher efficiency: **24.98%**
Lower degradation: 1 year≤1.0%, 2 -30 year≤0.35%
Better temperature coefficient: -0.26%/ ℃

Optimized Balance of System (BOS)

Significant savings on mounting structure, cabling, and labour cost

ZOEAST PV CO.,LTD.

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Maximum Power Output
510W

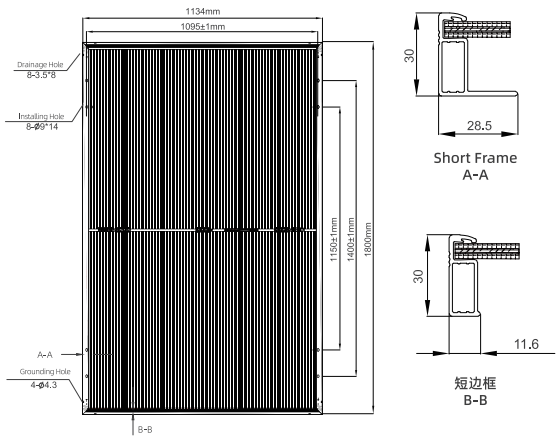
Maximum Module Efficiency
24.99%

Product Specifications

Battery type	GPC (Graphical Precise-doping Contact)
Number of cells	108 Cells (6×18)
Dimensions	1800×1134×30mm (70.87×44.65×1.18 inches)
Weight	24.8kg
Front/back side glass	2.0mm High transparency solar glass
Frame	Black, anodized aluminium alloy
J-box	IP68, three diodes
Cable	4 mm², +300/-200 mm, length can be customized
Connector	GCL-01/GCL-02/MC4-EVO2/others
Packaging Configuration	Module per box: 36 pieces Module per 40' HQ: 864 pieces

Back View

Tolerance: Length:±2mm Width:±2mm



Electrical Specification (STC)

Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

Maximum power	Pmax (W)	480	485	490	495	500	505	510
Maximum power voltage	Vmp(V)	33.85	34.07	34.28	34.50	34.71	34.92	35.13
Maximum power current	Imp (A)	14.18	14.24	14.29	14.35	14.41	14.46	14.52
Open circuit voltage	Voc (V)	40.47	40.57	40.67	40.77	40.87	40.97	41.07
Short circuit current	Isc (A)	15.02	15.08	15.14	15.20	15.26	15.32	15.38
Module efficiency	(%)	23.52	23.76	24.01	24.25	24.50	24.74	24.99
Power tolerance	(%)				0~+3			
Temperature coefficient	(Isc)				+0.05%/°C			
Temperature coefficient	(Voc)				-0.22%/°C			
Temperature coefficient	(Pmax)				-0.26%/°C			

Electrical characteristics with different power bin (reference to 10% Irradiance ratio)

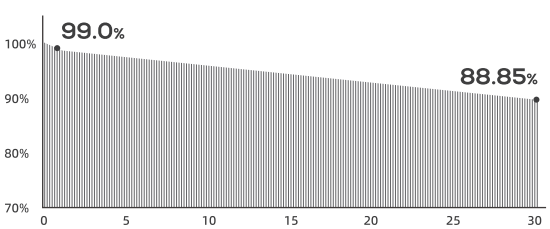
Maximum power	**Pmax (W)**	508.8	514.1	519.4	524.7	530.0	535.3	540.6
Maximum power voltage	**Vmp(V)**	33.85	34.07	34.28	34.50	34.71	34.92	35.13
Maximum power current	**Imp (A)**	15.03	15.09	15.15	15.21	15.27	15.33	15.39
Open circuit voltage	**Voc (V)**	40.47	40.57	40.67	40.77	40.87	40.97	41.07
Short circuit current	**Isc (A)**	15.92	15.98	16.05	16.11	16.18	16.24	16.30

Application Conditions

Operational temperature	-40~+85°C
Maximum system voltage	1500V DC
Max series fuse rating	30A
Wind/ snow load	2400Pa/5400Pa*

*For detailed information, please refer to the GCL SI Installation Manual.

Power Warranty



25 Year
Product Warranty

30 Year
Linear Power Warranty

1%
First-Year Power Degradation

0.35%
Linear Power Degradation

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