



Mono

GSM425-460WM8-144

Maximum efficiency



21.16% conversion efficiency
Better shading tolerance

Positive features



Multi Bar highlight efficiency
0~+5W power tolerance

Sever quality control



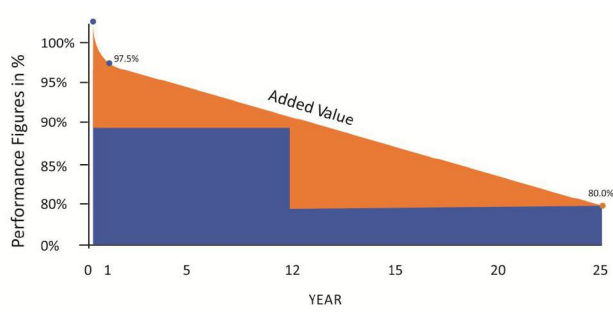
100% EL strict examination
PID resistant and free of snail trails

Outstanding environment resistance



3600Pa wind load
5400Pa snow load

Superior Warranty

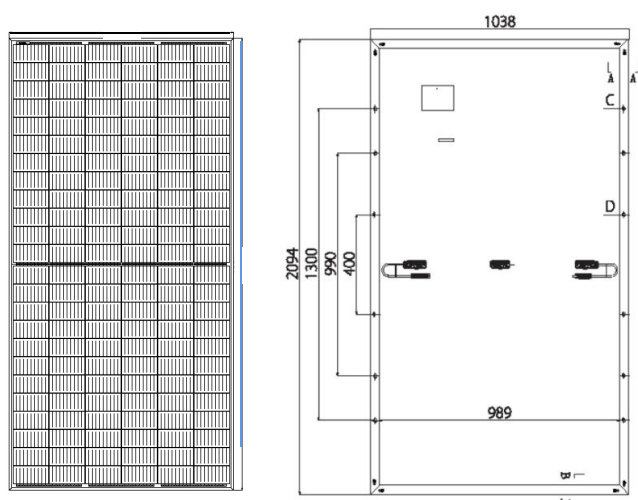


Introduction

Great Solar, established in 2010, is a global leading professional PV module manufacturer, our products have been applied in residential, commercial and grounding solar photovoltaic power plant systems. Great Solar produces high-performance solar products, provides whole system solutions and technical support for best serving clients. We dedicate to satisfy clients' requirements in high quality solar panels for maximumly improving customers' revenue.



MECHANICAL DIAGRAMS



SPECIFICATIONS

Cell	Monocrystalline(9BB)
NO. of Cells	144(6x24) Solar Cells
Frame	Anodized Aluminum Alloy
Glass	Low Iron, Tempered Glass, 3.2mm
Junction Box	IP68 Rated
Connector	MC4 Compatible
Dimension	2094x1038x35mm
Weight	23.5kg
Packing	155/20GP,682/40HQ

ELECTRIC CHARACTERISTICS

Model	GSM425 M8-144	GSM430 M8-144	GSM435 M8-144	GSM440 M8-144	GSM445 M8-144	GSM450M8-144	GSM455M8-144	GSM460M8-144
Max-power Pm(W)	425	430	435	440	445	450	455	460
Open-circuit voltage Voc(V)	48.3	48.5	48.7	48.9	49.1	49.3	49.5	49.7
Open-circuit current Isc(A)	11.23	11.31	11.39	11.46	11.53	11.60	11.66	11.73
Max-power voltage Vmp(V)	40.5	40.7	40.9	41.1	41.3	41.5	41.7	41.9
Max-power current Imp(A)	10.50	10.57	10.64	10.71	10.78	10.85	10.92	10.98

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

TEMPERATURE AND COEFFICIENTS

OPERATING CONDITIONS

Nominal Module Operating Temperature	45±2°C	Operating Temperature	-40~ + 85°C
Temperature Coefficient Of Pmax (%/°C)	-0.35	Storage Temperature	-40~ + 85°C
Temperature Coefficient Of Voc (%/°C)	-0.27	Maximum Series Fuse Rating	20A
Temperature Coefficient Of Isc (%/°C)	0.048	Maximum System Voltage	DC1500V



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