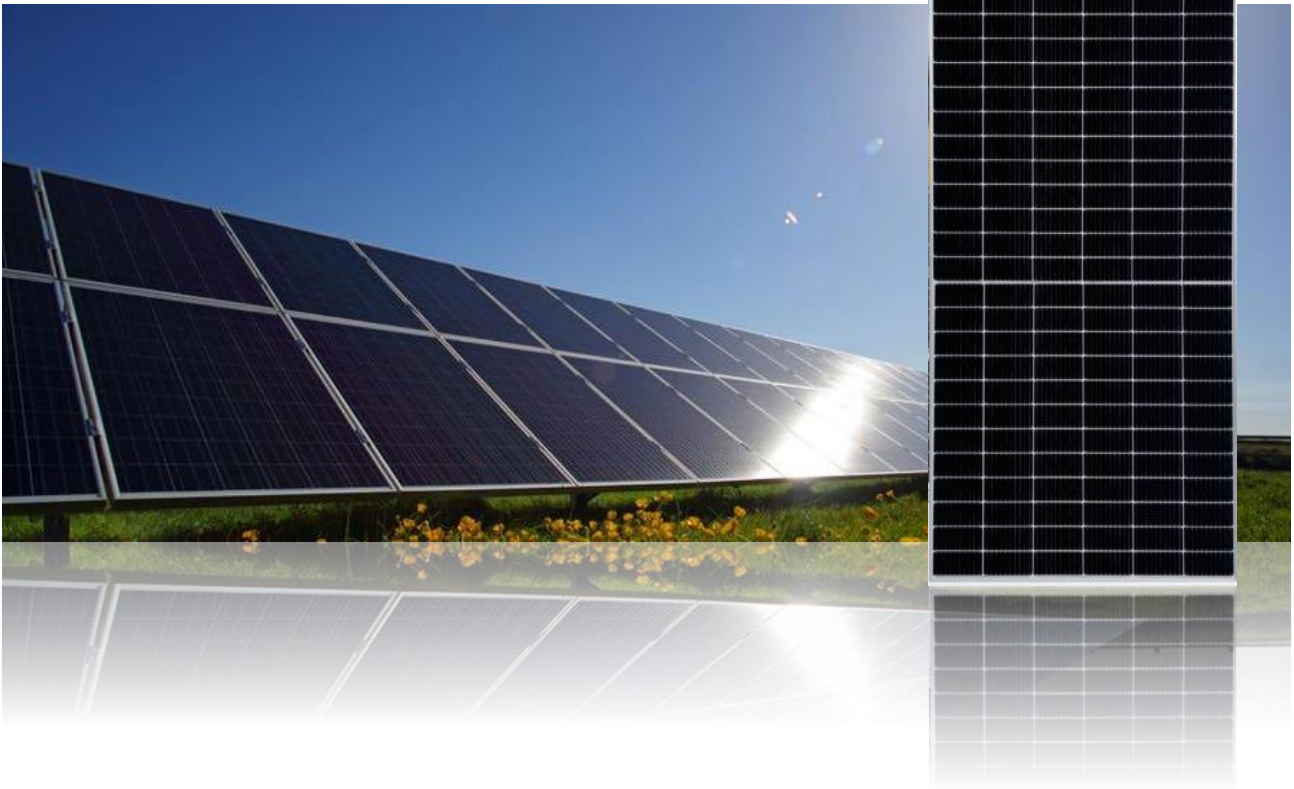


Sunny Apex



Features

High Efficiency

Advanced Ga-doped PERC technology, module efficiency up to 21.3%

Excellent Low-light Performance

Advanced solar cells surface texturing technology, allows for excellent performance in low-light environment

Outstanding PID Resistant Performance

Innovative cell technology, keeping modules from degradation induced by electric potential difference

High Reliability

Strict quality control guarantees high reliability

Reliable Mechanical design

Certified to withstand 5400Pa snow load and 2400Pa wind load

Product Certificates



Sunny Apex

Electrical Specifications (STC*)

Model type	DBG530	DBG535	DBG540	DBG545	DBG550
Peak power (Pmax/W)	530	535	540	545	550
Maximum power voltage (Vmp/V)	41.57	41.80	42.03	42.25	42.48
Maximum power current (Imp/A)	12.75	12.80	12.85	12.90	12.95
Open circuit voltage (Voc/V)	49.63	49.76	49.89	50.10	50.32
Short circuit current (Isc/A)	13.5	13.55	13.60	13.65	13.7
Module efficiency (%)	20.51	20.71	20.9	21.09	21.29

*STC (irradiance of 1000W/m², AM 1.5G, cell temp. 25°C)

Mechanical Specifications

Number of cells & array	Mono half-cut cells 144pcs
Cell size (mm)	182*91
Glass thickness (mm)	3.2
Frame	anodized aluminum alloy
Cables	4mm ² , negative 300mm, positive 300mm
Module weight (kg)	27
Module dimension (L*W*H)(mm)	2278*1134*35mm
Packing	31pcs/pallet

Quality Parameters

Module working temperature range (°C)	-40 ~ +85
Power tolerance (W)	0~+3
Maximum system voltage (V)	DC1500
System maximum protection current (A)	25
NOCT(°C)	45±2
Front/rear static loads (Pa)	2400/5400
Junction box / connector	IP68, split / MC4 compatible

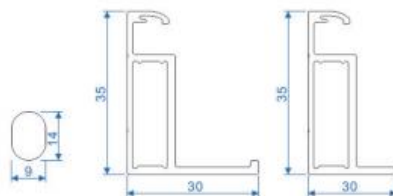
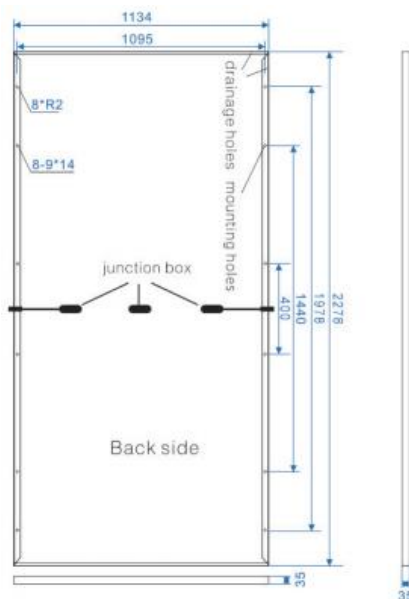
Temperature co-efficient (STC)

Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Isc	+0.05%/°C

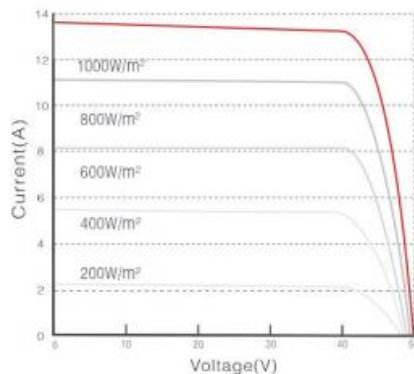
Warranties

Warranties	12 years materials & workmanship warranty 25 years linear power warranty
------------	---

Module dimension (mm)



IV curve



Attention: Read safety and installation instructions before using.

2024 Sunny Apex Development Ltd. All right reserved. Specifications included in this datasheet are subject to change without notice.