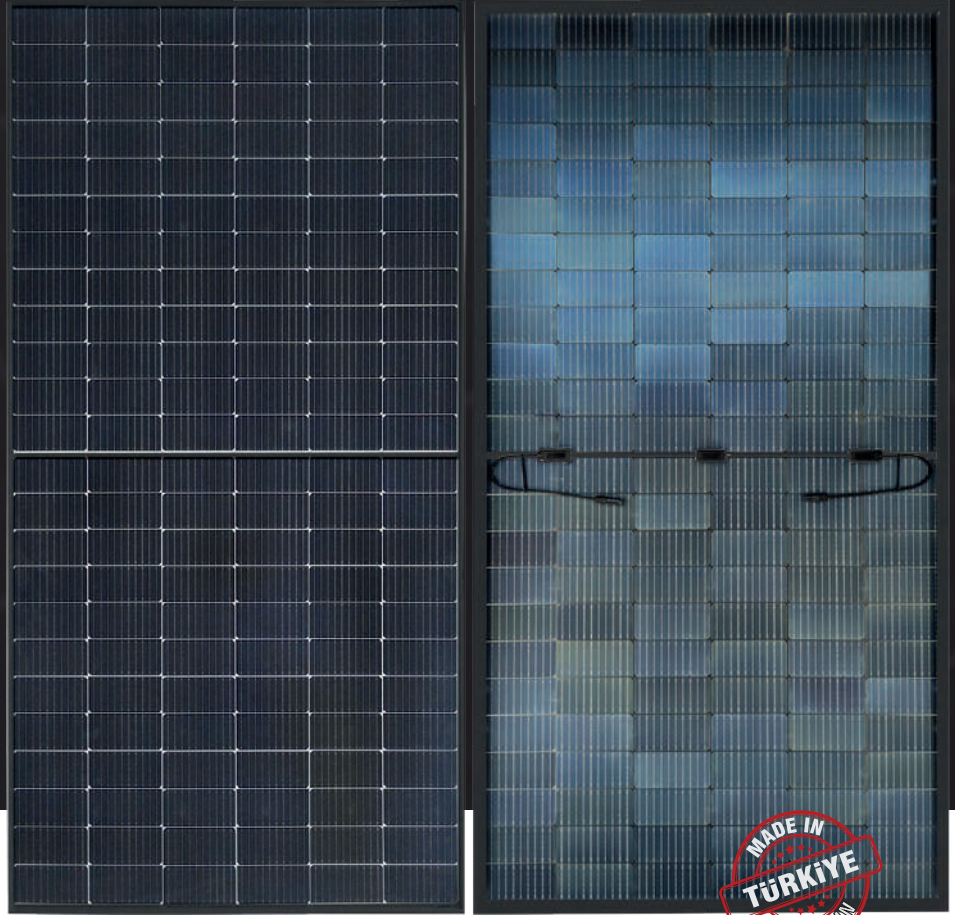




M10 Multi-Busbar MonoPERC 144 Half-Cut Cell BLACK BIFACIAL

SDG535-555-M10HC144BB
535 ~ 555 W



Market proven P Type Mono Crystal Solar Cell Technology



High efficiency with Multi-Busbar and Half-Cut Cell technology



Less power loss with minimal shadow effect



Resistance to harsh environmental and climatic conditions



Quality assurance with multiple quality control points



High efficiency at low radiation



Safe and stable power generation



Less reflection effect with anti-reflective coating



Maximizing Efficiency with Bifaciality Effect

SUITABLE FOR



Commercial

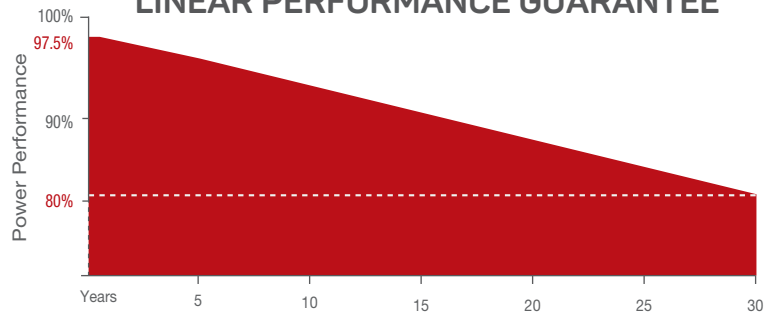


Utility



Off-grid

LINEAR PERFORMANCE GUARANTEE



The average annual power loss from the 2nd year to the 30th year will not exceed 0.5%.

12 YEARS
GUARANTEED

25 YEARS LINEER PERFORMANCE
GUARANTEED

OUR CERTIFICATES

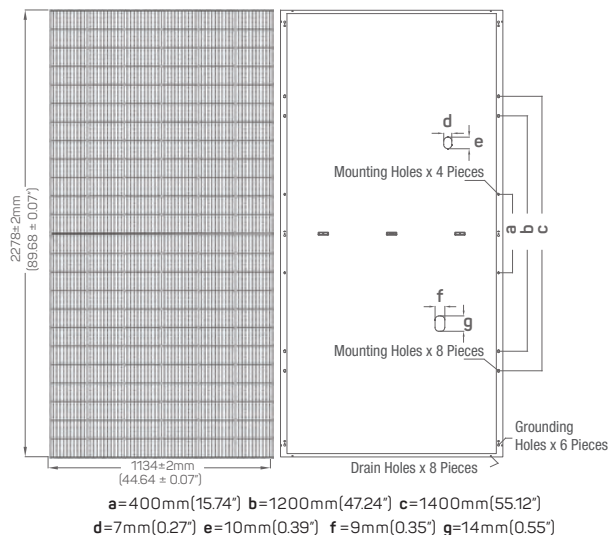


ISO9001
ISO14001
ISO45001
ISO27001
ISO50001



MECHANICAL SPECIFICATIONS

Cell Size	182x91mm (7.17x3.58in)
Cell Type	Mono-Crystalline P Type
Cell Orientation	144 Pcs (6x12x2)
Glass	Single Glass, 3.2mm (0.13in) Anti-Reflection Coated & Tempered High Transmittance Glass
Junction Box	IP68, 3 diodes
Connectors	MC4 Compatible
Cable	4mm ²
Cable Length	400-1300mm (15.75-51.18in)
Frame	Black-Anodized Aluminium Alloy
Weight	28.3Kg (62.39lbs)
Dimensions	1134±2x2278±2x35±0.5mm (44.65x89.69x1.18in)
Backsheet	Transparent



ELECTRICAL CHARACTERISTIC

Module Type	SDG535-M10HC144BB	SDG540-M10HC144BB	SDG545-M10HC144BB	SDG550-M10HC144BB	SDG555-M10HC144BB
Maximum Power (P _{max} /W)	535	540	545	550	555
Open Circuit Voltage (V _{oc} /V)	49.97	50.23	50.49	50.74	51.00
Short Circuit Current (I _{sc} /A)	13.18	13.65	14.12	14.59	15.08
Voltage at Maximum Power (V _{mp} /V)	41.73	42.07	42.42	42.76	43.10
Current at Maximum Power (I _{mp} /A)	12.82	12.84	12.85	12.87	12.88
Module Efficiency (%)	20.7	20.9	21.1	21.3	21.5
Temperature Coefficient of I _{sc} (α _{Isc})	+0.0332%/°C				
Temperature Coefficient of V _{oc} (β _{Voc})	-0.2270%/°C				
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.3017%/°C				
Power Tolerance	0~+5W				
Testing Condition	STC				

STC : Irradiance 1000 W/m² , Cell Temperature 25°C , AM 1.5 G - Measurement uncertainty ± 3%

OPERATING CONDITIONS

Operating Temperature	-40°C ~+85°C (-40°F~185°F)
Front Maximum Static Load	5400 Pa (113lbs/ft ²)
Back Maximum Static Load	2400 Pa (50.1lbs/ft ²)
Maximum System Voltage	DC 1500 V (IEC/UL)
Maximum Series Fuse Rating	25 A
Nominal Operating Cell Temp.	45 ± 2°C (113±35.6°F)
Protection Class	Class II
Fire Rating	Class C (IEC) Type 29 (UL)
Bifaciality*	%70±%10

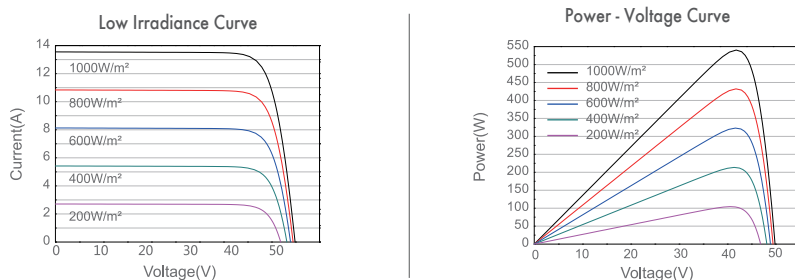
*Bifaciality = [P_{max}(Rear)/(P_{max}(Front))*100

BIFACIAL GAIN

GAIN%	SDG535-M10HC144BB	SDG540-M10HC144BB	SDG545-M10HC144BB	SDG550-M10HC144BB	SDG555-M10HC144BB
+%5	561.75	567	572.25	577.5	582.75
+%15	615.25	621	626.75	632.5	638.25
+%25	668.75	675	681.25	687.5	693.75

The additional gain obtained from the rear side may vary due to reasons such as location during installation, building height, and inclination angle.

I-V and P-V CURVES



PACKAGING INFORMATION

Module quantity of a pallet	30 Pcs/Pallet
Pallet Package Dimension (LxWxH)	2335x1155x1280mm (91.93x45.47x50.39in)
Pallet Quantity of a 40ft HQ Container	20 Pcs/18 Pcs (USA)
Module quantity of a 40ft HQ Container	600 Pcs/540 Pcs (USA)

*The technical data contained in this document is for informational purposes only and cannot be used as part of contracts. Net values will be specified in the contracts. SDG Solar Energy Technologies Inc. reserves the right to make changes without notice.

