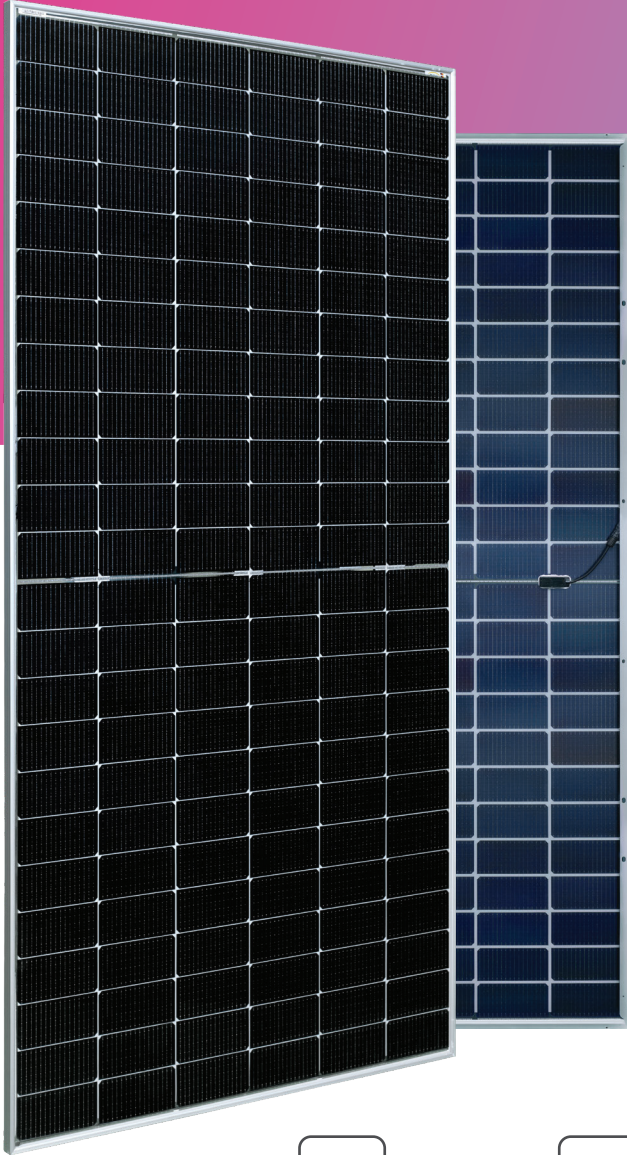




Qudra-144BDS Series 555W-575W



555W-575W N-TYPE TOPCON TECHNOLOGY PV MODULES HALF-CUT CELLS BIFACIAL DOUBLE-GLASS

30

years
Performance
Guarantee

15

years
Product
Warranty

144

HALF
CELLS

182
mm

CELL
SIZE



LID
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



AMMONIA
RESISTANT



SAND
RESISTANT



HIGHLY STABLE
AND TOUGH



IEC 61215
IEC 61730
Regular Production Surveillance
Type Tested and Monitored

IEC 62716 (Ammonia corrosion)
IEC 61701 (Salt mist corrosion)
IEC 60068 (Sand and dust)
IEC 62804 (PID resistance)



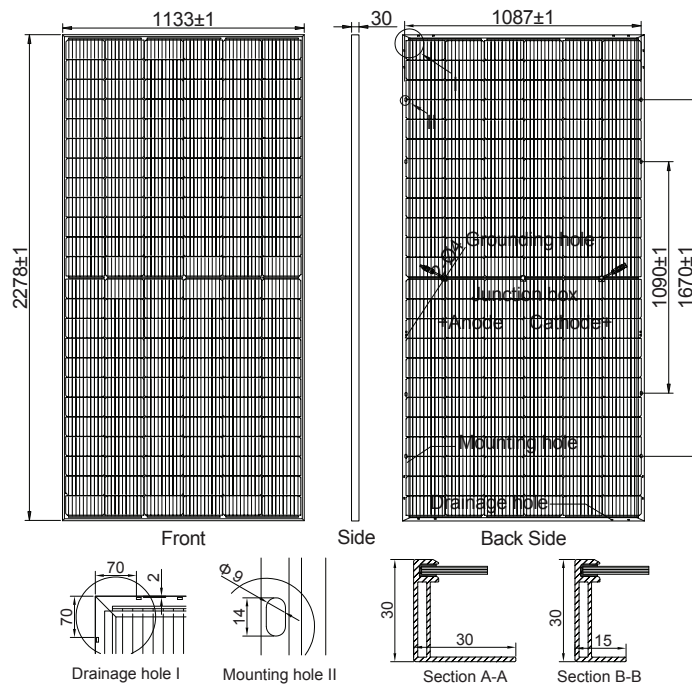
Qudra Renewable Energy Solutions, Ramallah, Palestine

The company reserves the right for explanation on any information presented on this datasheet, and making any necessary adjustments to the information. The specification, features, and certifications given on the datasheet are for indicative purpose, and may slightly deviate in actual products, including due to on-going improvements. The Modules should be carefully handled and installed according to professional instructions.

Qudra-144BDS Series 555W-575W

Mechanical and design specification

Cell type	N-type TOPCon Technology, Half-cut cells, 182 mm
No. of cells	144
Bifaciality	80±5%
Glass	2.0 mm, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm white glazed glass, tempered
Junction box	IP 68 rated
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2278 mm x 1133 mm x 30 mm
Weight	32.5 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa/ 244 kg/ m ²
Mechanical load	5400 Pa/ 550 kg/ m ²
Fire Rating	Class A (according to UL 790)

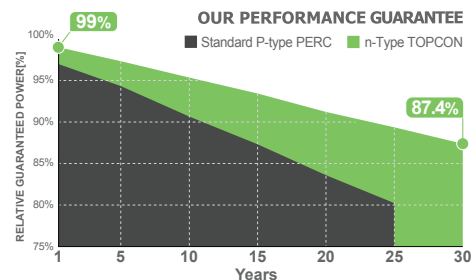
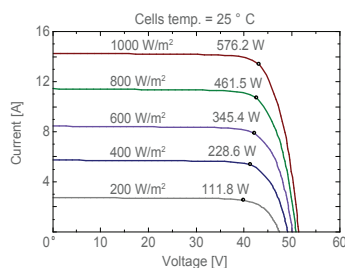


Packaging information

Packaging configuration	72 pcs / double pallets
Loading capacity	720 pcs / 40 HQ
Size / Pallet	2310 mm x 1140 mm x 2490 mm
Weight	2464 kg / double pallets

Temperature ratings

Operating temperature	(°C)	-40 to +85
Temp.coefficient of P _{max}	(%/°C)	-0.31
Temp.coefficient of V _{oc}	(%/°C)	-0.26
Temp.coefficient of I _{sc}	(%/°C)	0.046
Nom. operating temp. NOCT	(°C)	42 ± 2



Electrical specifications (STC*):

Nominal Max. Power	P _{max} (Wp)	555	560	565	570	575
Maximum operating voltage	V _{MPP} (V)	42.24	42.40	42.56	42.72	42.88
Maximum operating current	I _{MPP} (A)	13.14	13.21	13.28	13.34	13.41
Open-circuit voltage	V _{oc} (V)	50.07	50.23	50.39	50.55	50.68
Short-circuit current	I _{sc} (A)	14.07	14.14	14.20	14.26	14.33
Module efficiency	η (%)	21.50	21.70	21.89	22.08	22.28
Power tolerance	(W)	0~+5				
Maximum system Voltage	(V)	1500				
Maximum series fuse rating	(A)	25				

*STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5)

Electrical specifications (NMOT*):

Nominal Max. Power	P _{max} (Wp)	422.8	426.0	430.1	434.0	437.4
Maximum operating voltage	V _{MPP} (V)	39.20	39.30	39.50	39.70	39.80
Maximum operating current	I _{MPP} (A)	10.79	10.84	10.89	10.94	10.99
Open-circuit voltage	V _{oc} (V)	47.40	47.50	47.70	47.80	48.00
Short-circuit current	I _{sc} (A)	11.35	11.40	11.45	11.50	11.55

*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m², Ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

The specifications and characteristics contained in this datasheet may deviate slightly from our actual products due to the product developments and uncertainty of measurement devices. The specifications included in the datasheet are subject to change without prior notice.

