Qudra renewable energy solutions

قُدرة
Qudra

TOPCON

More power, Less degradation

680W-700W

Qudra CME-132 Series

N-TYPE TOPCON TECHNOLOGY PV MODULES
HALF-CUT CELLS MONO-FACIAL

30 years Performance Guarantee

15 years Product Guarantee

- **132** HALF CELLS
- **210 mm** CELL SIZE
- LID RESISTANT
- PID RESISTANT
- SALT CORROSION RESISTANT
- NH_3 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

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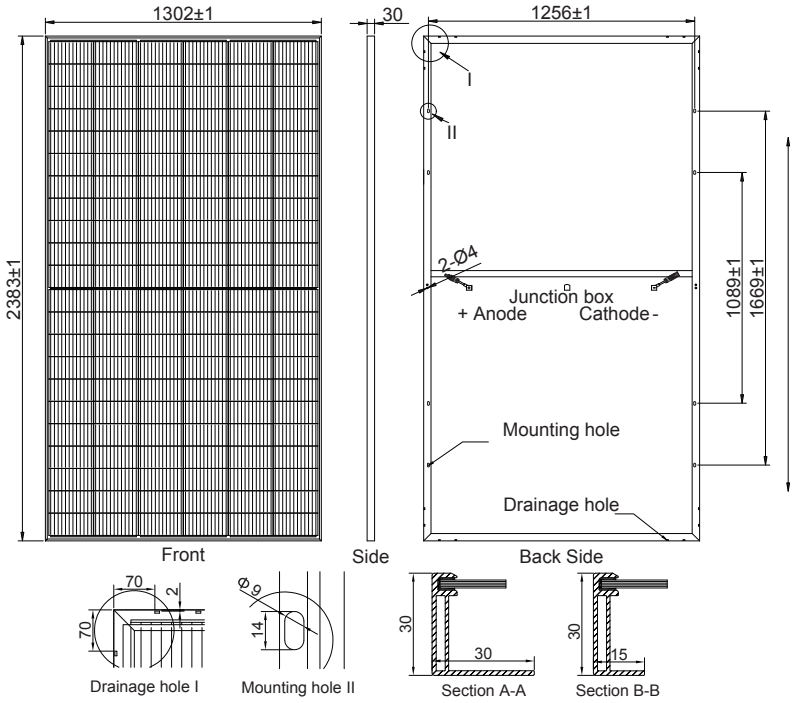
N-TYPE TOPCON TECHNOLOGY PV MODULES
HALF-CUT CELLS MONO-FACIAL

Qudra CME-132 Series 680W-700W

Mechanical and design specification

Cell type	N-type TOPCon Technology, Half-cut cells, 210mm
No. of cells	132
Front cover	3.2mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White Backsheet
Junction box	IP68 rated, 3 Bypass Diodes
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm², 350 mm lenght or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2383 mm x 1302 mm x 30 mm
Weight	31.5 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400Pa / 244kg/m²
Snow load	5400Pa / 550kg/m²

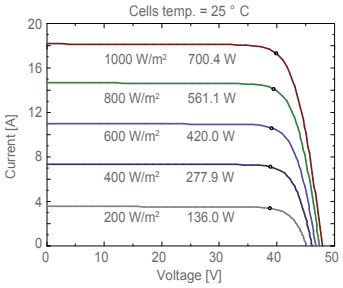


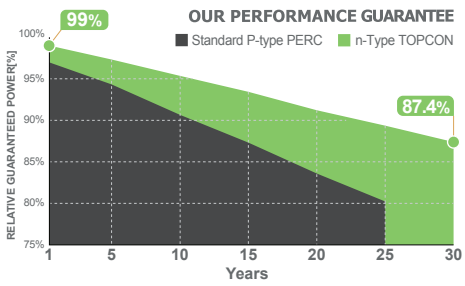
Packaging information

Packaging configuration	36 pcs / pallet
Loading capacity	612 pcs / 40 HQ
Size / Pallet	1350 mm x 1140 mm x 2500 mm (Upright)
Weight	1167 kg / pallet

Temperature ratings

Operating temperature	(°C)	-40 to +85
Temp.coefficient of P_{max}	(%/°C)	-0.30
Temp.coefficient of V_{oc}	(%/°C)	-0.24
Temp.coefficient of I_{sc}	(%/°C)	0.04
Nom. operating temp. NOCT	(°C)	43 ± 2





Electrical specifications (STC*):

		Qudra680CME-132	Qudra685CME-132	Qudra690CME-132	Qudra695CME-132	Qudra700CME-132
Nominal Max. Power	P_{max} (Wp)	680	685	690	695	700
Maximum operating voltage	V_{MPP} (V)	39.65	39.85	40.10	40.30	40.52
Maximum operating current	I_{MPP} (A)	17.16	17.19	17.23	17.25	17.28
Open-circuit voltage	V_{oc} (V)	47.40	47.70	47.90	48.10	48.30
Short-circuit current	I_{sc} (A)	18.18	18.21	18.25	18.28	18.31
Module efficiency	η (%)	21.92	22.08	22.24	22.41	22.57
Power tolerance	(W)			0~+5		
Maximum system Voltage	(V)			1500		
Maximum series fuse rating	(A)			30		

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

Electrical specifications (NMOT*):

		Qudra680CME-132	Qudra685CME-132	Qudra690CME-132	Qudra695CME-132	Qudra700CME-132
Nominal Max. Power	P_{max} (Wp)	517	521	525	529	533
Maximum operating voltage	V_{MPP} (V)	37.20	37.30	37.60	37.85	38.10
Maximum operating current	I_{MPP} (A)	13.91	13.94	13.97	13.98	14.00
Open-circuit voltage	V_{oc} (V)	44.90	45.20	45.40	45.60	45.80
Short-circuit current	I_{sc} (A)	14.65	14.67	14.71	14.75	14.79

*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)

• UNIPAL building, Fourth Floor,
Industrial Zone P.O. 1909, Ramallah, Palestine.
• Qusin junction P.O. 178, Nablus, Palestine
+972 2922446
info@qudra.ps
QudraPs
QudraPs
Qudra
Renewable Energy Solutions