







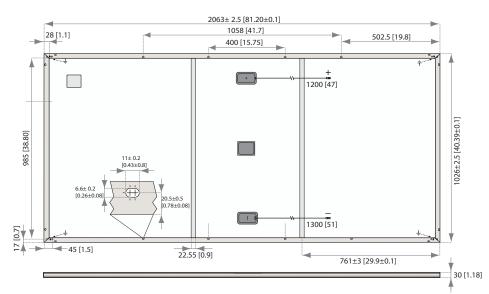
450 WP POWER



EXPERIENCE

PERFORMANCE

REC ALPHA 72 SERIES



Measurements in mm [in]

GENERAL DATA

Y GENERAL DATA				
Cell type:	144 half-cut cells with REC heterojunction cell technology 6 strings of 24 cells in series	Connectors:	Stäubli MC4 Evo 2 PV-KBT4-EVO-2/PV-KST4-EVO-2(4 mm²) in accordance with IEC 62852 IP68 only when connected	
Glass:	3.2 mm solar glass with anti-reflection surface treatment	Cable:	4 mm² solar cable, 1.2 m + 1.3 m in accordance with EN 50618	
Backsheet:	Highly resistant polymeric construction	Dimensions:	2063 x 1026 x 30 mm (2.12 m²)	
Frame:	Anodized aluminum	Weight:	23.5 kg	
Junction box:	3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790	Origin:	Made in Singapore	

	ELECTRICAL DATA	Product Code*: RECxxxAA 72
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	Power Output - P _{MAX} (Wp)	430	435	440	445	450
STC	Watt Class Sorting - (W)	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
	Nominal Power Voltage - V _{MPP} (V)	44.1	44.5	44.8	45.3	45.6
	Nominal Power Current - I _{MPP} (A)	9.76	9.79	9.84	9.85	9.88
	Open Circuit Voltage - V _{oc} (V)	52.6	52.8	52.9	53.0	53.1
	Short Circuit Current - I _{SC} (A)	10.46	10.50	10.52	10.54	10.55
	Power Density (W/m²)	203.79	206.16	208.53	210.90	213.27
	Panel Efficiency (%)	20.3	20.6	20.8	21.0	21.3
	Power Output - P _{MAX} (Wp)	328	332	336	339	343
Ŀ	Nominal Power Voltage - V _{MPP} (V)	41.6	41.9	42.2	42.7	43.0
NMO	Nominal Power Current - I _{MPP} (A)	7.88	7.91	7.95	7.95	7.98
	Open Circuit Voltage - V _{oc} (V)	49.6	49.8	49.8	49.9	50.0
	Short Circuit Current - I _{SC} (A)	8.45	8.48	8.50	8.51	8.52

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with Values at standard test consists of the second of the sec

CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 61730		
IEC 62804	PID	
IEC 61701	Salt Mist	
IEC 62716	Ammonia Resistance	
ISO 11925-2	Ignitability (Class E)	
IEC 62782	Dynamic Mechanical Load	
IEC 61215-2:2016	Hailstone (35mm)	
AS4040.2 NCC 2016	Cyclic Wind Load	
ISO 14001:2004, ISO 9001:2015, OHSAS 18001:2007, IEC 62941		











WARRANTY*

	Standard	REC	ProTrust
Installed by an REC Certified Solar Professional	No	Yes	Yes
System Size	All	≤25 kW	25-500 kW
Product Warranty (yrs)	20	25	25
Power Warranty (yrs)	25	25	25
Labor Warranty (yrs)	0	25	10
Power in Year 1	98%	98%	98%
Annual Degradation	0.25%	0.25%	0.25%
Power in Year 25	92%	92%	92%

See warranty documents for details. Conditions apply.

MAXIMUM RATINGS

Operational temperature:	-40+85°C
Maximum system voltage:	1500 V
Design load (+): snow Maximum test load (+):	3600 Pa (367 kg/m²)† 5400 Pa (550 kg/m²)*
Design load (-): wind Maximum test load (-):	1600 Pa (163 kg/m²)† 2400 Pa (245 kg/m²)*
Max series fuse rating:	25 A
Max reverse current:	25 A

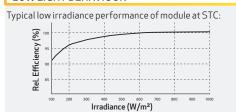
*Calculated using a safety factor of 1.5 *See installation manual for mounting instructions

TEMPERATURE RATINGS*

Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P_{MAX} :	-0.26 %/°C
Temperature coefficient of V_{oc} :	-0.24 %/°C
Temperature coefficient of I _{cc} :	0.04 %/°C

*The temperature coefficients stated are linear values

LOW LIGHT BEHAVIOUR





REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power in order to facilitate global energy transitions.

Committed to quality and innovation, REC offers photovoltaic modules with leading high quality, backed by an exceptional low warranty claims rate of less than 100 ppm. Founded in Norway in 1996, REC employs 2,000 people and has an annual solar panel capacity of 1.8 GW. With over 10 GW. installed worldwide, REC is empowering more than 16 million people with clean solar energy. REC Group is a Bluestar Elkem company with headquarters in Norway, operational headquarters in Singapore, and regional bases in North America, Europe, and Asia-Pacific.





