



PV MODULE :
Standard Series : PM220P01 (Tested and certified by the TÜV Rheinland)

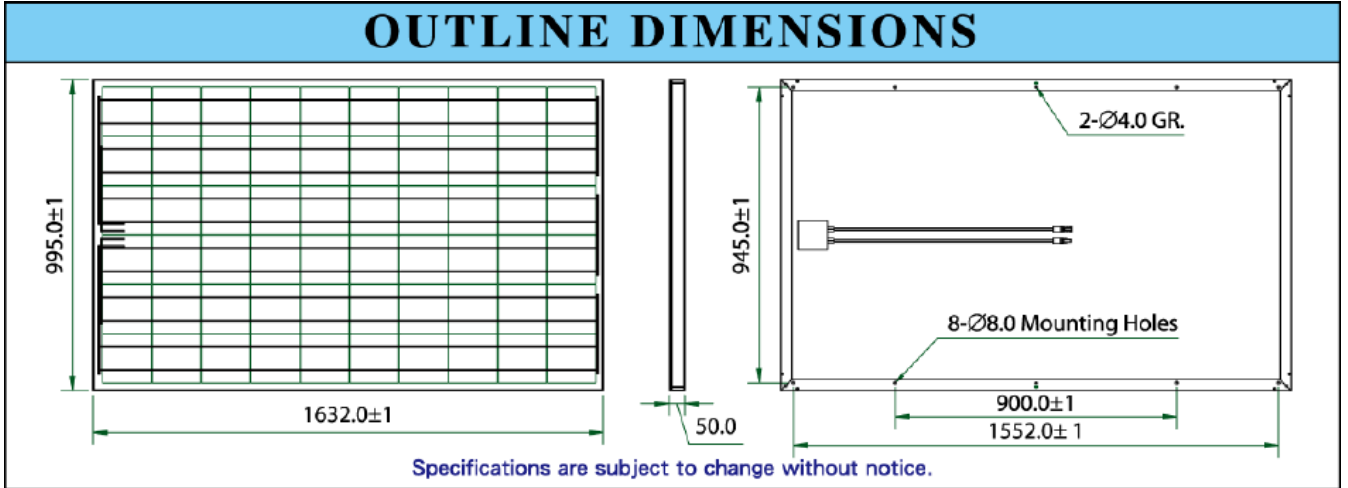
Specification	PM220P01						
Typ. Nominal Power P_N @STC*	210 Wp	215 Wp	220 Wp	225 Wp	230 Wp	235 Wp	240 Wp
Typ. Module Efficiency	12.93%	13.24%	13.55%	13.86%	14.16%	14.47%	14.78%
Typ. Nominal Voltage V_N (V) @STC*	29.64	29.58	30.12	30.24	30.36	30.60	30.72
Typ. Nominal Current I_N (A) @STC*	7.09	7.18	7.30	7.44	7.58	7.68	7.83
Typ. Open Circuit V_{oc} (V) @STC*	35.94	36.00	36.06	36.24	36.42	36.72	36.84
Typ. Short Circuit I_{sc} (A) @STC*	7.60	7.83	7.95	8.04	8.10	8.23	8.32
Maximum Tolerance of P_N **	-0/+ 3%						
NOCT***	46±2°C						
Typ. Temperature Coefficient of P_N	-0.43%/°C						
Typ. Temperature Coefficient of V_{oc}	-0.34%/°C						
Temperature Coefficient of I_{sc}	0.08%/°C						
Maximum System Voltage	1000V						
IP Protection Level	IP 65						
Serial Fuse Rating	15A						
Module Technology	Glass-foil-laminate with aluminum frame High transparent solar glass (tempered), 3.2mm Embedding: EVA Backside Foil : White Aluminum Frame : Silver						
Module Design	60 polycrystalline solar cells, 156mm x 156mm						
No. and Type Solar Cells	60 polycrystalline solar cells, 156mm x 156mm						
Cables	Ø=4 mm ²						
Bypass-Diodes	3						
Dimensions (L x W x H)	1632 x 995 x 50 mm						
Weight	20kg						
Operating Temperature	-40...+80°C						
Ambient Temperature Range	-40...+45°C						
Qualifications	IEC61215 Ed.2 / IEC61730						

* STC: Standard Test Conditions, measurement conditions: Radiation strength 1000 W/m², spectral distribution AM 1.5, temperature 25 ± 2°C, in accordance with EN 60904-3

** The given electrical data are nominal values which account for basic measurements and manufacturing tolerances of ±10%, with the exception of P_N . The classification is performed according to P_N

*** NOCT: Normal Operation Cell Temperature, Measuring conditions: irradiance 800 W/m², AM 1,5, Air temperature 20°C, wind speed 1m/s

OUTLINE DIMENSIONS



dimension unit: mm