



POWER ON P220-6×10

glass/backsheet solar module

Highly efficient poly crystalline solar cells
156 X 156mm with 2 bus bars configuration

Certified materials- junction box,EVA foil,
backsheet foil

Specially tempered high transparency
solar glass

State-of-the-art production equipment

Produced by highly automated production line

Narrow power tolerances $\pm 3\%$

High strength with wind and snow
loads guaranteed up to 2400 Pa



STC *

typ. Nominal Power P_N (Wp)	220
typ. Nominal Voltage U_N (V)	30.20
typ. Nominal Current I_N (A)	7.28
typ. Open Circuit U_{oc} (V)	36.90
typ. Short Circuit I_{sc} (A)	7.85
typ. Module efficiency	13.2%
Classification of P_N **	precision of measurement: $\pm 3\%$
* STC : Standard Test Conditions , measurement conditions : Radiation strength 1000 W/m ² , spectral distribution AM 1.5 , temperature 25 \pm 2°C , in accordance with EN 60904-3	
** The given electrical data are nominal values which account for basic measurements and manufacturing tolerances of $\pm 3\%$, with the exception of P_N . The classification is performed according to P_N .	



NOCT ***

NOCT	45 °C
typ. Nominal Power P_N (Wp)	158.0
typ. Nominal Voltage U_N (V)	26.81
typ. Nominal Current I_N (A)	5.90
typ. Open Circuit U_{oc} (V)	34.06
typ. Short Circuit I_{sc} (A)	6.36
Module efficiency reduction at 200 W/m ² ****	-0.47%
*** NOCT : Normal Operation Cell Temperature , Measuring conditions : irradiance 800 W/m ² , AM 1.5, Air temperature 20 °C , wind speed 1m/s	
**** Reduction of module efficiency to decrease the irradiance of 1000 W/m ² , on 200 W/m ² , temperature 25 °C, in accordance with EN 60904-1	



Temperature

typ. Temperature Coefficient of P_N	-0.46 %/K
typ. Temperature Coefficient of U_{oc}	-0.129 V/K
typ. Temperature Coefficient of U_{mp}	-0.124 V/K
typ. Temperature Coefficient of I_{sc}	4.4m A/K



Conditions

Max. System Voltage	600V
Operating Temperature	-40 ... +85 °C
Ambient Temperature Range	-40 ... +45 °C
Reverse Current Rating I_r *****	15A
***** Reverse Current Rating I_r : Operation of more than 3 strings in parallel is only permitted by using a string fuse with a max. release current of I_r	



Characteristic

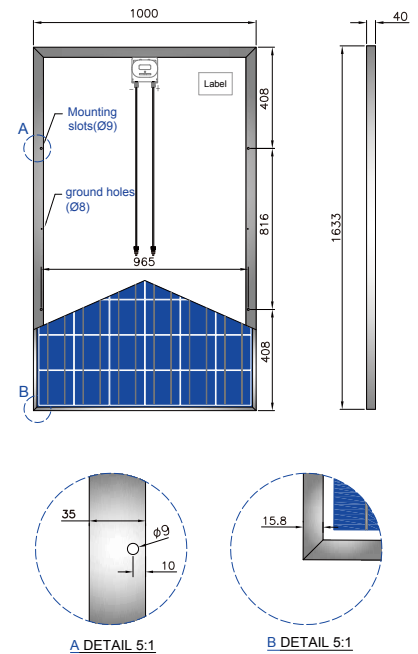
Module Technology	Glass-foil-laminate with aluminium frame
Module Design	High transparency solar glass (tempered) , 3.2 mm Encapsulation : EVA - Solar Cells - EVA
No. and Type of Solar Cells	60 polycrystalline solar cells , 156 mm x 156 mm
Cables and Connections	Junction box with MC / Tyco(optional) Plug connector , cables 1 x 4 mm ² , Length : each 1.0 m
Junction Box	IP65 , with 3 bypass diodes
Dimensions (L x W x H)	1633 x 1000 x 40 [in mm]
Weight	19.6 kg



Certificates/Qualifications

Certificates / Qualifications	UL_E329265
Warranty	5 years physical warranty with 10 years 90% power output warranty, 25 years with 80% power output warranty

Drawing



A DETAIL 5:1

B DETAIL 5:1



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