



PEAK ON P3-235-60

glass/backsheet solar module

Highly efficient poly crystalline solar cells
156 X 156mm with 3 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

Positive power rating -0/+5W

High strength with wind and snow
loads guaranteed up to 5400 Pa



STC *

typ. Nominal Power P_N (Wp)	230	235	240	245	250
typ. Nominal Voltage U_N (V)	29.81	30.19	30.67	31.02	31.49
typ. Nominal Current I_N (A)	7.80	7.87	7.91	7.98	8.02
typ. Open Circuit U_{oc} (V)	37.11	37.21	37.43	37.51	37.78
typ. Short Circuit I_{sc} (A)	8.39	8.48	8.59	8.74	8.85
typ. Module efficiency	14.3%	14.6%	14.9%	15.2%	15.5%
Classification of P_N **	0..+5W (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	47 \pm 2 °C				
typ. Nominal Power P_N (Wp)	168.9	172.5	176.1	179.7	183.3
typ. Nominal Voltage U_N (V)	26.72	27.06	27.49	27.81	28.23
typ. Nominal Current I_N (A)	6.32	6.38	6.41	6.46	6.50
typ. Open Circuit U_{oc} (V)	34.34	34.44	34.66	34.74	35.01
typ. Short Circuit I_{sc} (A)	6.79	6.86	6.95	7.07	7.16
Module efficiency reduction at 200 W/m ² ****	-0.66%	-0.67%	-0.68%	-0.69%	-0.70%
*** 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	-0.42 %/K
typ. Temperature Coefficient of U_{oc}	-0.34 %/K
typ. Temperature Coefficient of U_{mp}	-0.127 V/K
typ. Temperature Coefficient of I_{sc}	0.054 %/K



Conditions

Max. System Voltage	1000V
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 Embedding : EVA Backside Foil : black or white
No. and Type of Solar Cells	60 poly crystalline 3 bus bar 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

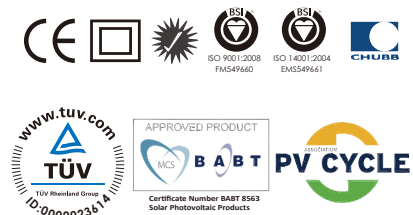
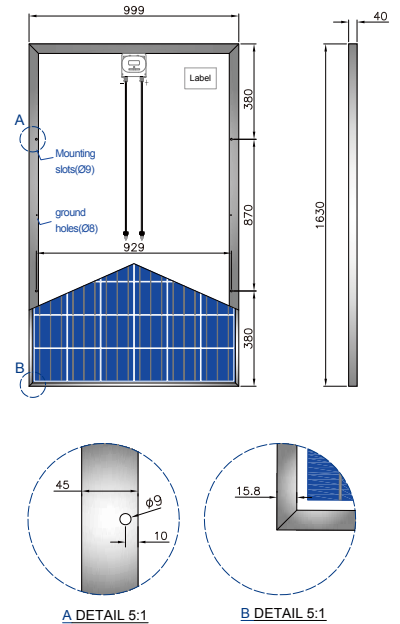
Dimensions (L x W x H)	1630 x 999 x 40 [in mm]
Weight	19.6 kg



Certificates/Qualifications

Certificates / Qualifications	IEC 61215 Ed.2 / IEC 61730
Warranty	5 years physical warranty with 10 years 90% power output warranty, 25 years with 80% power output warranty

Drawing



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