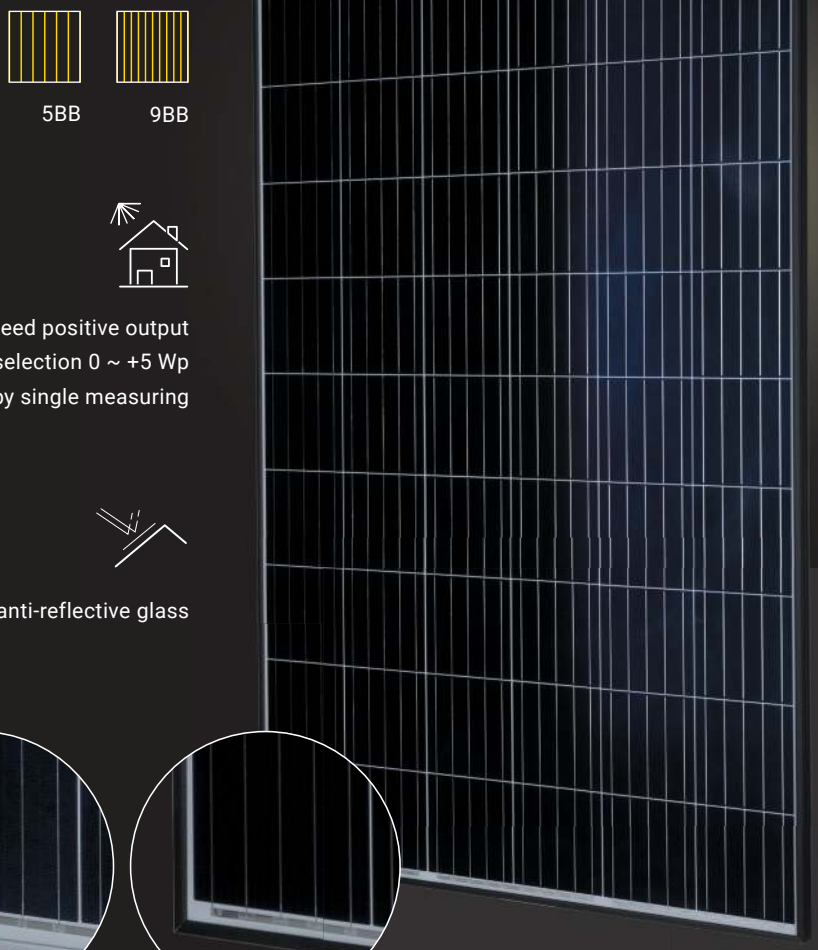
Monocrystalline 60 cells

VENUS



5BB 9BB

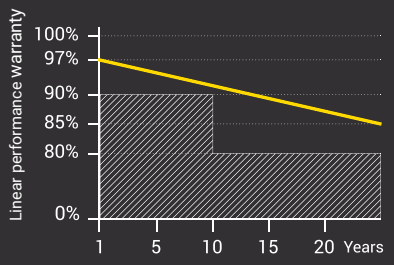
Guaranteed positive output
selection 0 ~ +5 Wp
by single measuring

3.2 mm anti-reflective glass

Maximum stability through
aluminium soft grip frame

Maximum 5400 Pa snow load

15 years manufacturer's warranty
25 years linear performance guarantee





SILVER | WHITE

BLACK | WHITE

OUTPUT: 310 - 340 WATT

VENUS high efficiency monocrystalline 60 cell modules with PERC cells, grants high performance and conversion efficiency over 20 %. VENUS series features a 35 mm silver or black anodized aluminium frame, which combines robustness to light weight and a 3.2 mm anti-reflective glass which is optimizing the panel perfomance to solar irradiance.

EXE®

power for a better world

STC	A-M310/60 [5BB]	A-M320/60 [5BB]	A-M330/60 [5BB]	A-M340/60 [9BB]
Maximum Power (Pmax) (W)	310	320	330	340
Open Circuit Voltage (Voc) (V)	39.85	40.43	41.05	41.66
Short Circuit Current (Isc) (A)	10.07	10.19	10.33	10.48
Voltage at Maximum Power (Vmpp) (V)	32.58	33.13	33.67	34.20
Current at Maximum Power (Impp) (A)	9.56	9.66	9.80	9.94
Module Efficiency (%)	18.77	19.38	19.98	20.58

STC (Standard Testing Condition): Irradiance 1000 W/m², Cell Temperature 25 ºC, Spectra at AM 1.5; Test uncertainity tolerance for Pmax, Voc and Isc: ±3 %

Electrical Parameters at NOCT	A-M310/60 [5BB]	A-M320/60 [5BB]	A-M330/60 [5BB]	A-M340/60 [9BB]
Maximum Power (Pmax) (W)	229	237	245	253
Open Circuit Voltage (Voc) (V)	37.28	38.15	39.01	40.29
Short Circuit Current (Isc) (A)	7.94	8.02	8.10	8.18
Voltage at Maximum Power (Vmpp) (V)	30.57	31.31	32.03	32.76
Current at Maximum Power (Impp) (A)	7.49	7.57	7.65	7.73

NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², Ambient Temperature 20 ºC, Spectra at AM 1.5, Wind at 1 m/s

Temperature Characteristics	
Pmax Temperature Coefficients (W / °C)	-0.36 % / °C
Voc Temperature Coefficients (V / °C)	-0.29 % / °C
Isc Temperature Coefficients (A / °C)	+0.05 % / °C
NMOT Nominal Operating Cell Temperature (°C)	45 ±2 °C

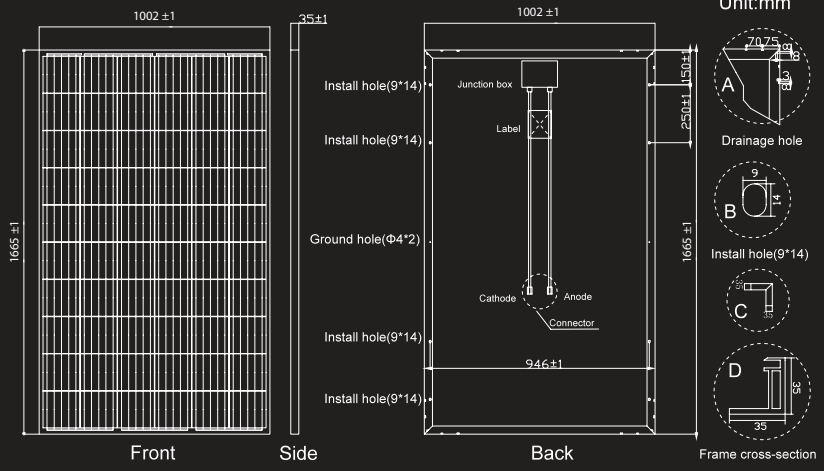
Operating Conditions	
Operating Module Temperature	-40 °C ~ +85 °C
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	20 A
Selection	0 ~ +5 W
Nominal Front Load	5400 Pa tested 8000 Pa
Nominal Rear Load	2400 Pa
Class of Protection	II

Specifications	
Cell Type	Mono G1 158.75 5BB | 9BB
Weight	17.5 kg ±3 %
Dimensions	1665x1002x35 mm (±0.7 %)
Cable Cross Section Size	4 mm², cable approx 110 cm, QC4 compatible
No. of cells	60 (6x10)
Junction Box	IP67, 3 diodes
Frame	Silver anodized aluminium
	Black anodized aluminium
Front glass	3.2 mm high transmission, low iron, tempered glass

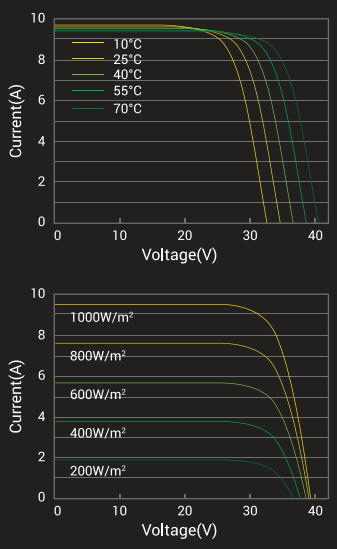
Packing Details	
Container Type	40'HC
No. of Pallets	28
Pieces per Pallet	30
Total quantity of modules	840

(1665x1002x35)

Unit:mm



I-V Curve: (A-M320)



CE

V1/04.2021
Due to continuous innovation and improvement, technical data are subject to change without prior notice.
Measurement tolerances ±3 %