



GW-BD16/60-Max	310~320W
Mono crystalline Module	Power Output Range

19.0%	0~+5W
Maximum Efficiency	Power Tolerance

## Product Specifications Book

- PID free module  
 Anti-PID cell technology  
 Anti-PID encapsulation technology
- UL 1703, IEC 61215, IEC 61730 and CE  
 ISO 9001 for Quality Management Systems  
 ISO 14001 for Environmental Management Systems  
 ISO 18001 occupational Health and Safety System
- Lower annual power degradation and current sorting reduces the mismatch power loss in system operation
- Improve safety  
 1500VDC (CSA) / 1500VDC (TUV) certified  
 2 EL inspections per cell/module for defect-free
- Load certificates: wind to 2400Pa and snow to 5400Pa

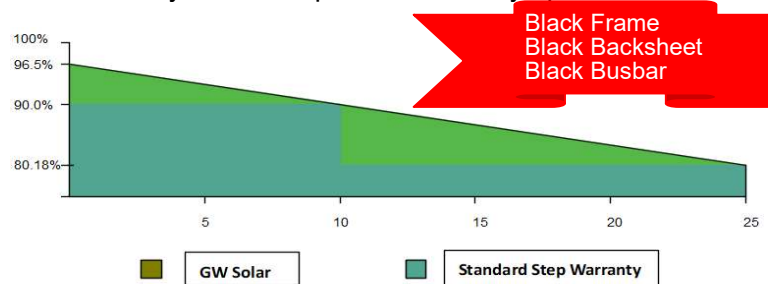
Munich RE

MARSH



### LINEAR PERFORMANCE WARRANTY

15 years extra product warranty option



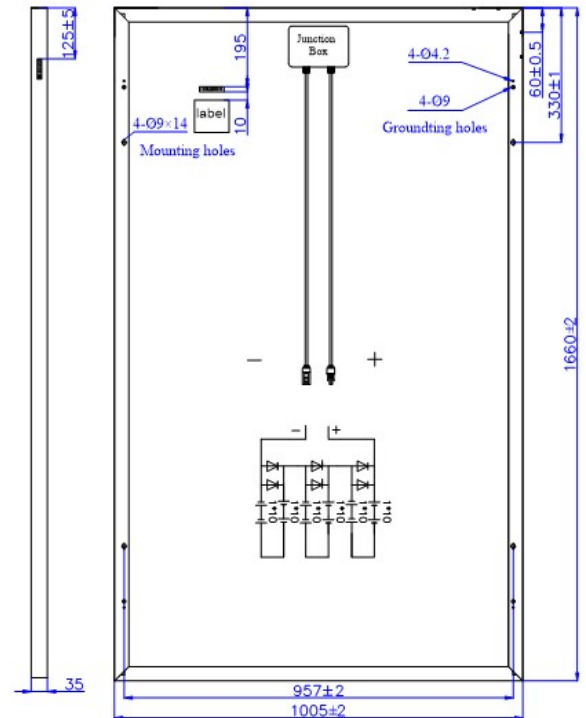
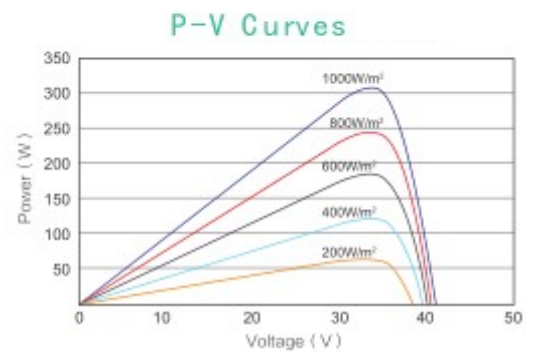
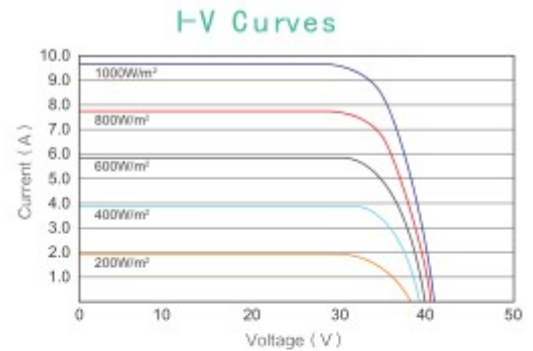
Munich RE Insurance Global Coverage

Electrical Specifications (standard test conditions)			
Maximum Power -Pmax (W)	310	315	320
Power Tolerance -Pmax W)	0 ~ +5		
Operating voltage-Vmpp (V)	33.1	33.5	33.6
Operating current) -Impp (A)	9.37	9.39	9.40
Open circuit voltage -Voc (V)	38.9	39.0	39.0
Short circuit current -Isc (A)	9.90	9.93	9.96
Module Efficiency - $\eta$ m (%)	18.4	18.7	19.0
Standard test conditions under Measured Value:( air quality AM1.5, Irradiance 1000W / m <sup>2</sup> , cell temperature 25 ° C)			

Electrical Index (under nominal operating cell temperature conditions)			
Maximum Power-PMAX (W)	231	235	239
Operating voltage -Vmpp (V)	30.7	31.1	31.3
Operating current) -Impp (A)	7.53	7.56	7.64
Open circuit voltage -Voc (V)	37.4	37.5	37.6
Short circuit current -Isc (A)	8.03	8.06	8.09
NOCT: Irradiance 800W / m <sup>2</sup> , ambient temperature of 20 ° C, wind speed 1m / s			

Temperature Rating		Limit parameter	
NOCT	44°C (±2°C)	Working Temp	-40~+85°C
Coefficient Pmax	- 0.39%/°C	Maximum Series	15A
Coefficient Voc	- 0.29%/°C	Maximum system	1500VDC (TUV)
Coefficient Isc	0.05%/°C	Maximum system	1500VDC (CSA)

Mechanical Specifications	
Solar cell Type	158.75mm × 158.75mm Mono-crystalline
Number of Cells	1 module 60pieces (6 × 10)
Dimensions	1660*1005*35 mm (65.36*39.57*1.38 inch)
Weight	19.0 kg
Glass	3.2mm High transparency, coatings toughened glass
Junction Box	Protection level IP 68
Cable	4.0 mm <sup>2</sup> Photovoltaic dedicated cables, 1000mm
Connector	MC4
Frame	Black anodized aluminum
Backsheet	Black



### Warranty

- 15-year warranty for product
- 25-year warranty for linear power

### Packaging Method

- Modules per box: 31 pcs
- Modules per 40 ft container: 868 pcs