


Zero-rack Series


Polycrystalline Module




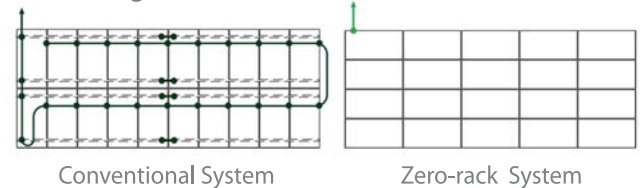
ET-P660240WBZ	240W
ET-P660235WBZ	235W
ET-P660230WBZ	230W
ET-P660225WBZ	225W
ET-P660220WBZ	220W


 Special frame with grooves reduces the installation time by 75%




 Rack-free design with 80% less parts reduces packaging volume and warehousing and transporting cost

 Built-in grounding system: If it's mounted, it's grounded



 Theft resistant: Professional tool and special knowledge are required for disassembling

 Compatible with all roof types as well as ground mounted racks

 Aesthetically appealing for residential and commercial systems

 0 to +5W positive power tolerance

 25-year warranty on power output; 10-year warranty on materials and workmanship



ELECTRICAL SPECIFICATIONS

Model type	ET-P660240WBZ	ET-P660235WBZ	ET-P660230WBZ	ET-P660225WBZ	ET-P660220WBZ
Peak power (Pmax)	240W	235W	230W	225W	220W
Cell efficiency	16.93%	16.58%	16.22%	15.87%	15.52%
Module efficiency	14.75%	14.44%	14.14%	13.83%	13.52%
Maximum power voltage (Vmp)	30.23V	29.90V	29.40V	29.33V	29.25V
Maximum power current (Imp)	7.94A	7.86A	7.82A	7.67A	7.52A
Open circuit voltage (Voc)	37.02V	36.96V	36.50V	36.35V	36.30V
Short circuit current (Isc)	8.49A	8.40A	8.30A	8.25A	8.20A
Power tolerance	±3%	0 to +5W			
Maximum system voltage	DC 1000V (VDE) / DC 600V (UL)				
Normal operating cell temperature	45.3±2°C				
Series fuse rating (A)	15A				
Number of bypass diode	3(15SQ045)				

MECHANICAL SPECIFICATIONS

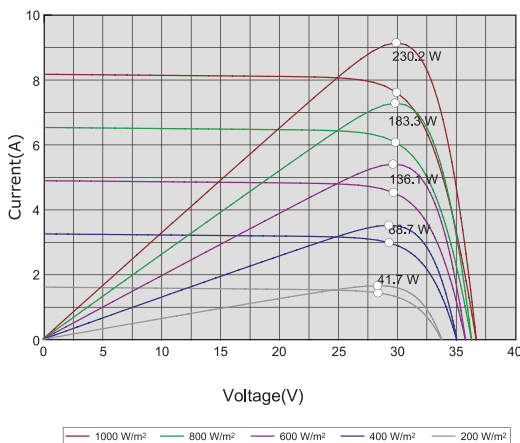
Cell type	156mm x 156mm
Number of cells	60 cells in series
Weight	19.63 kg (43.28lbs)
Dimensions	1640×992×40 mm (64.57×39.06×1.57 inch)
Max load	5400Pascals (112 lb/ft ²)

TEMPERATURE COEFFICIENT

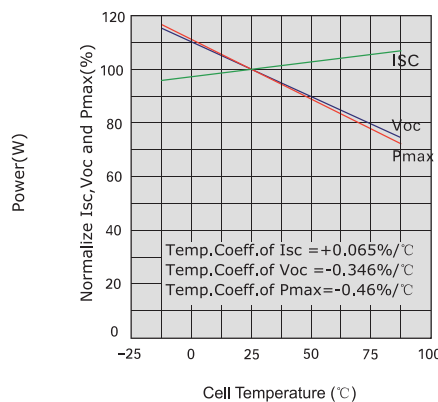
Temp. Coeff. of Isc (TK Isc)	0.065 %/°C
Temp. Coeff. of Voc (TK Voc)	-0.346 %/°C
Temp. Coeff. of Pmax (TK Pmax)	-0.46 %/°C

ELECTRICAL CHARACTERISTICS

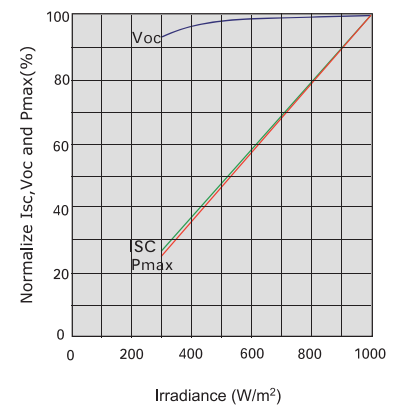
Electrical performance
(cell temperature:25°C)



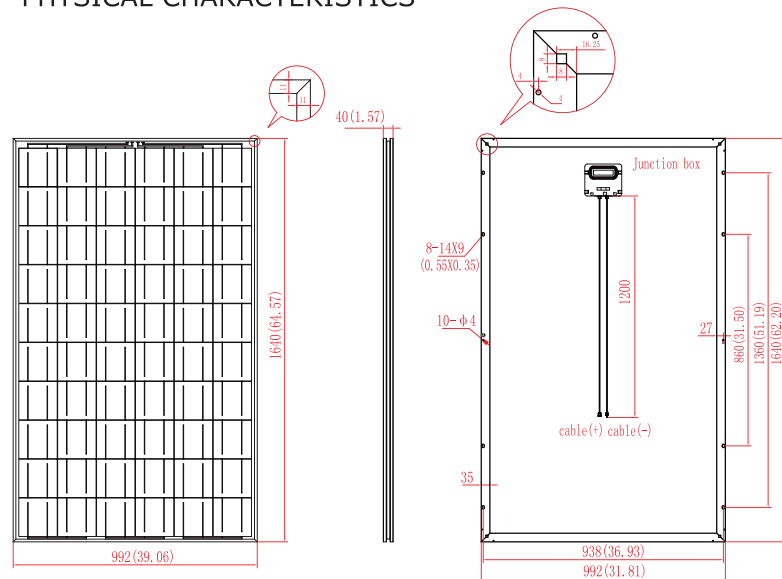
Temperature dependence of Isc, Voc and Pmax



Irradiance dependence of Isc, Voc and Pmax (cell temperature:25°C)



PHYSICAL CHARACTERISTICS



Note: The specifications are obtained under the Standard Test Conditions (STCs): 1000 W/m² solar irradiance, 1.5 Air Mass, and cell temperature of 25°C.

The NOCT is obtained under the Test Conditions : 800 W/m², 20°C ambient temperature, 1 m/s wind speed, AM 1.5 spectrum.

Please contact support@etsolar.com for technical support. The parameters may be changed without notice due to product improvement.