

640W-660W / ICME-132BDS

132

HALF CELLS

24.43%

MAXIMUM
EFFICIENCY

- ◆ 5% higher power density per unit area versus conventional modules
- ◆ True minimalist aesthetics with **front gridless cells** for architectural integration
- ◆ >88.8% power retention guaranteed after 30 years – industry-leading durability
- ◆ **Hotspot-resistant** design prevents fire risks under shading conditions
- ◆ **-0.26%/°C** temperature coefficient ensures superior performance in heat

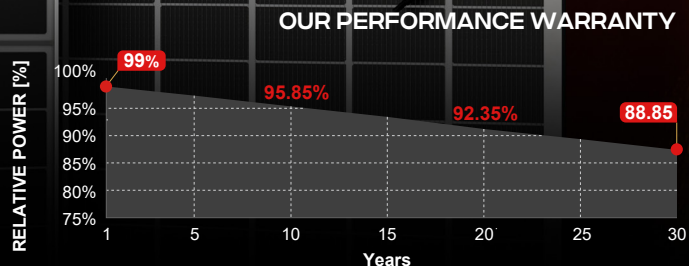


30 YEARS

Performance Warranty

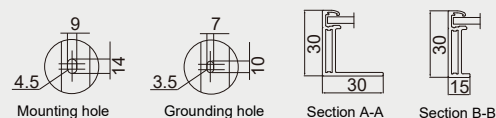
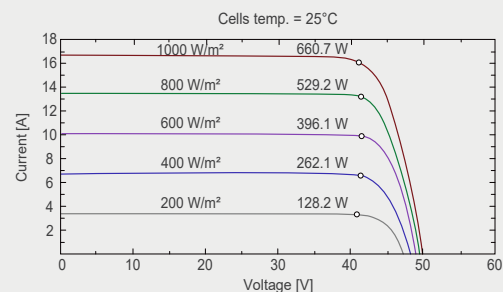
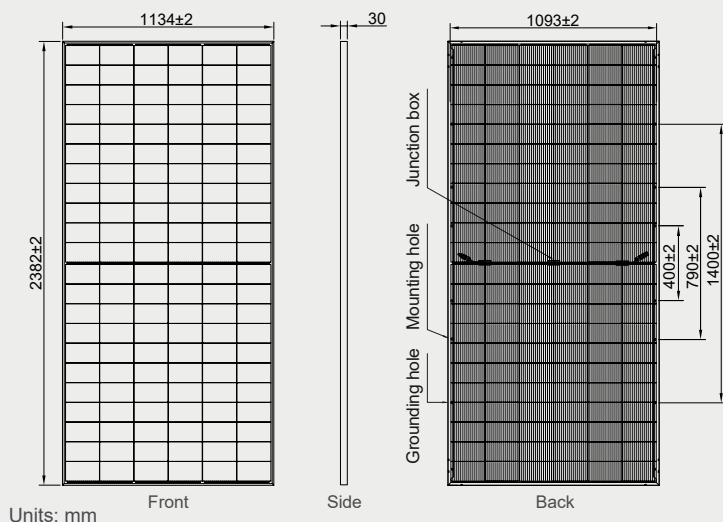
15 YEARS

Product Warranty



AESOLAR

SINCE 2003



Electrical specifications (STC*):

Nominal max. power	P_{max} (Wp)	640	645	650	655	660
Maximum operating voltage	V_{MPP} (V)	40.78	40.88	40.98	41.08	41.18
Maximum operating current	I_{MPP} (A)	15.69	15.78	15.86	15.94	16.03
Open-circuit voltage	V_{oc} (V)	49.52	49.62	49.72	49.82	49.92
Short-circuit current	I_{sc} (A)	16.38	16.46	16.54	16.62	16.70
Module efficiency	η (%)	23.69	23.88	24.06	24.25	24.43
Power tolerance		0~3%				
Maximum system voltage	(V)	DC1500V (IEC)				
Maximum series fuse rating	(A)	35				

*STC: Standard Test Conditions (irradiance 1000 W/m², cell temperature 25°C and air mass of AM1.5), measurement tolerance P_{max} : ±3%

Electrical specifications

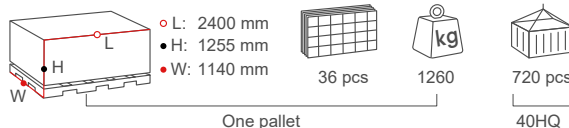
with different rear side power gain (Taking 645W as the baseline)

Nominal max. power	P_{max} (Wp)	677	710	744	776	808
Maximum operating voltage	V_{MPP} (V)	40.88	40.88	40.98	40.98	40.98
Maximum operating current	I_{MPP} (A)	16.57	17.36	18.15	18.94	19.73
Open-circuit voltage	V_{oc} (V)	49.62	49.62	49.72	49.72	49.72
Short-circuit current	I_{sc} (A)	17.28	18.11	18.93	19.75	20.58
P_{max} gain		5%	10%	15%	20%	25%

Mechanical and design specification

Cell type	n-Type Back Contact technology, half-cut cells
No. of cells	132
Glass	Dual glass, 2.0+2.0 mm, semi-tempered
Bifaciality	75 ± 5%
Junction box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable (Including Connector)	4mm² + 400, -200mm/±1400mm length can be customized
Connectors	MC 4 / MC 4 compatible
Dimension	2382 mm x 1134 mm x 30 mm
Weight	33.5 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m²
Snow load	5400 Pa or 550 kg/m²
Fire rating	IEC Class C
Protection class	Class II

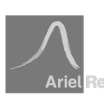
Packaging information



Temperature ratings

Operating temperature	-40 to +85°C
Temp. coefficient of P_{max}	-0.26 %/°C
Temp. coefficient of V_{oc}	-0.20 %/°C
Temp. coefficient of I_{sc}	0.050 %/°C
Nom. operating cell temp. NOCT	45 ± 2°C

SYSTEM AND PRODUCT CERTIFICATIONS



The specifications and characteristics contained in this datasheet may deviate slightly from our actual products due to the product developments and uncertainty of measurement devices. The specifications included in the datasheet are subject to change without prior notice.



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