

UL-175M-40 DG

UL-180M-40 DG

DOUBLE GLASS

1500V



Reduced system cost

1500V Higher maximum system voltage reduces BoS costs



Improved durability and reliability

Double tempered glass increases the module robustness to minimize micro-cracks



PID Free and Snail Trail Free

Without backsheet and frame reduces the water permeability and PID risks.



High Fire-resistance rating

1000°C heat resistant glass ensu



Reduced daily maintenance

Frameless design allows less accumulation of sand, dust or snow at the edge.



Excellent performance in harsh environmental conditions

5400Pa Snow Load Test, 2400Pa Wind Load Test, Res the higher fire rating test of class A. Better resistance to corrosion against high-temperature, high-humidity, acid, salty mist, sandy and other harsh conditions.



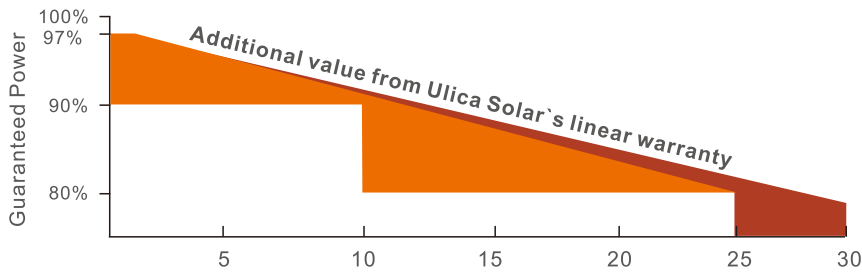
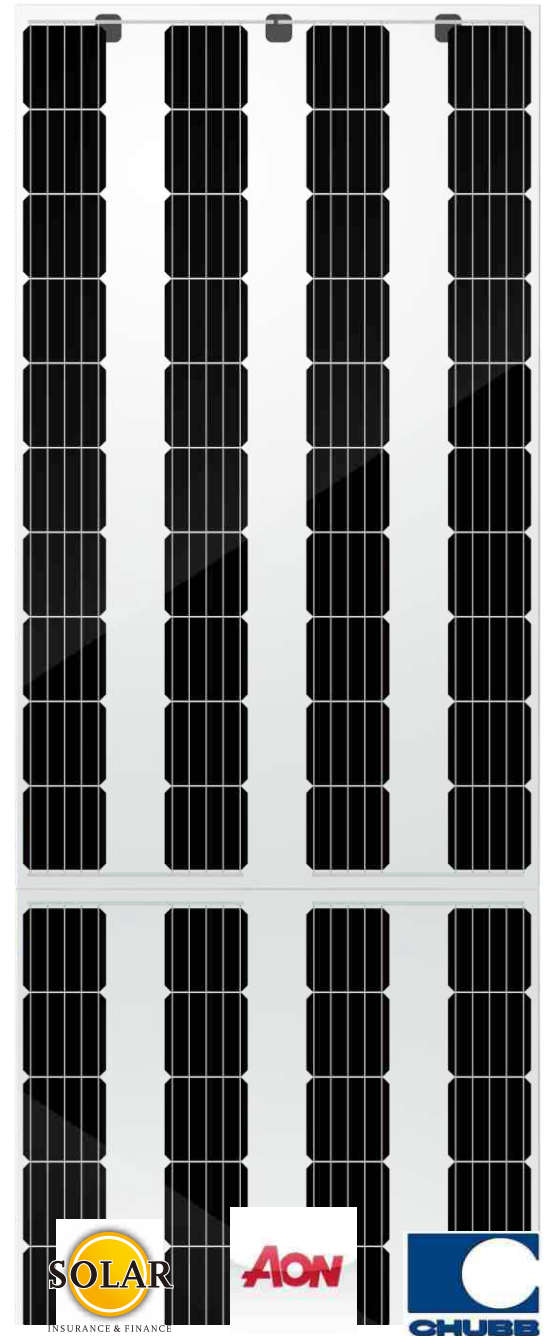
Longer lifetime

Less annual power loss of 0.5%, and provide 30 years performance warranty



World famous insurance against our warranty

CHUBB Insurance from USA, Solar Insurance & Finance from Netherlands



12-year workmanship warranty

30-year linear performance warranty



ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

Module Type	UL-175M-40 DG		UL-180M-40 DG	
Power Output	P _{max}	W	175	180
Power Tolerance	ΔP _{max}	%	0/+5W	
Module Efficiency	η _m	%	10.64	10.94
Voltage at P _{max}	V _m	V	20.6	20.8
Current at P _{max}	I _m	A	8.50	8.66
Open-Circuit Voltage	V _{oc}	V	25.4	25.5
Short-Circuit Current	I _{sc}	A	9.05	9.20

STC: 1000w/m² irradiance, 25°C module temperature, AM1.5 spectrum.

THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	45±2
Temperature Coefficient of P _{max}	γ	%/°C	-0.403
Temperature Coefficient of V _{oc}	β _{voc}	%/°C	-0.330
Temperature Coefficient of I _{sc}	α _{isc}	%/°C	+0.049

OPERATING CONDITIONS

Max. System Voltage	1500V
Max. Series Fuse Rating	15A
Operating Temperature Range	-40°C~85°C
Max. Static Load, Front (e.g., snow and wind)	5400Pa
Max. Static Load, Back (e.g., wind)	2400Pa
Application Class	A

CONSTRUCTION MATERIALS

Front Cover(material/type/thickness)	low-iron tempered glass/2.5mm
Cell(quantity/material/type/dimension)	40/monocrystalline/156x156mm
Encapsulant(material)	ethylene vinyl acetate(EVA)
Junction Box(Protection degree)	IP67
Cable(length/cross-sectional area)	400mm/4mm ²
Plug Connector	MC4 compatible

GENERAL CHARACTERISTICS

Dimension(L/W/H)	1658/992/6mm
Weight	23.5kg

PACKING CONFIGURATION

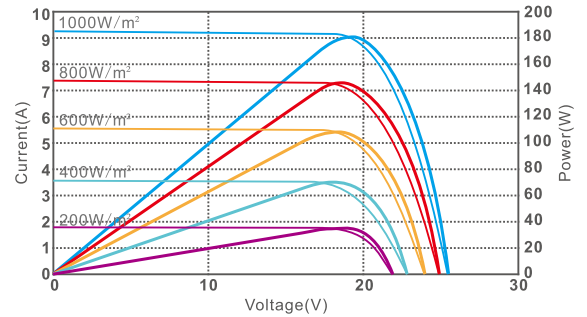
Pallet Size(L/W/H)	1730/1120/2350mm
Pallet Weight	1520kg
Pieces per Pallet	60pcs
Pieces per Container	780pcs

INTERNATIONAL CERTIFICATES

- TÜV SÜD, TÜV NORD, UL, CE, JET, CEC, MCS, CQC, IMERTRO, NRE, KS
- ISO9001:2008
- ISO14001:2004
- BS OHSAS 18001:2007

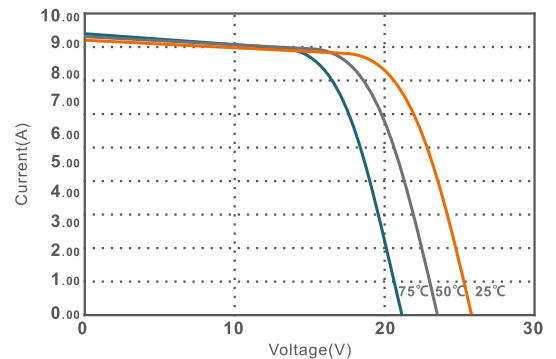
I-V CURVE

I-V characteristics at different irradiances

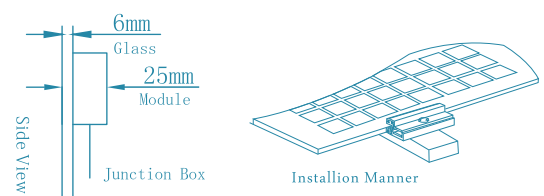
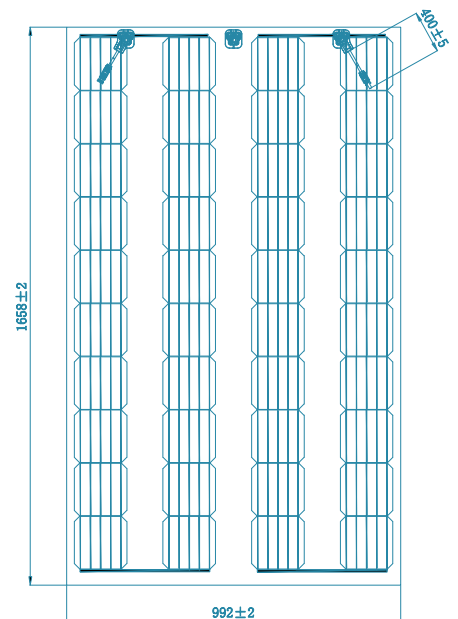


UL-180M-40DG

I-V characteristics at different temperature



UL-180M-40DG



Please read the instruction manual in this entirety before handing, installing, and operating Ulica Solar modules.

Due to continuous innovation, research and improvement, the specification is subject to change without prior notice.