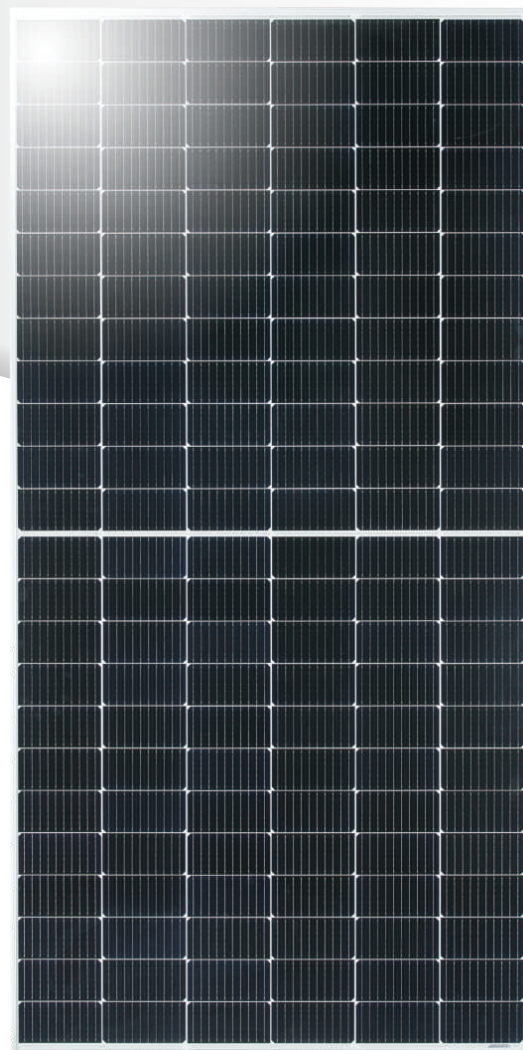
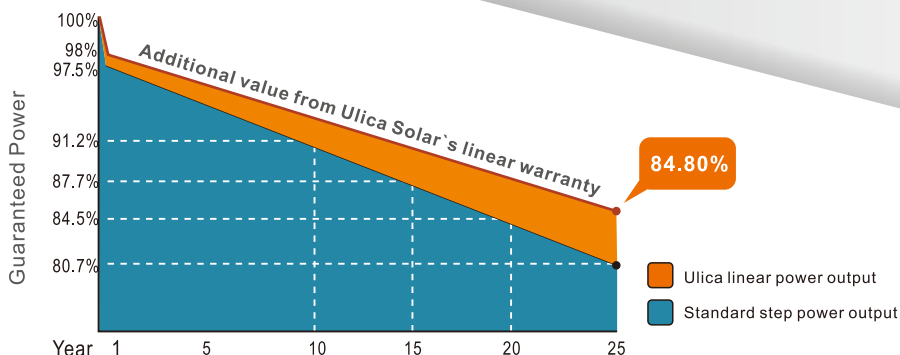


MONO HALF-CUT MODULE

UL-545 | 550 | 555M-144HV



Anti-PID(potential induced degradation)
 Passed anti-PID test under 85°C damp heat
 85% relative humidity for 96 hours



Great Durability against extreme conditions
 Passed salt mist corrosion test, ammonia corrosion test
 dust & sand test, fire test, all certified by TÜV



Lower LCOE
 Lower shading and resistive loss
 Lower temperature coefficient



Outstanding mechanical load resistance
 2400 Pa wind load, 5400 Pa snow load



CEC Listed



- IEC 61215, IEC 61730
- ISO 9001: 2015 (Quality management systems)
- ISO 14001: 2015 (Environmental management systems)
- ISO 45001: 2018 (Occupational health and safety)
- UNI 9177 la CLASSE DI REAZIONE AL FUOCO:1



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ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

Module Type	UL-545M-144HV		UL-550M-144HV		UL-555M-144HV
Power Output	P _{max}	W	545	550	555
Power Tolerance	ΔP _{max}	W	0/+5W		
Module Efficiency	η _m	%	21.09	21.28	21.48
Voltage at P _{max}	V _m	V	41.8	41.9	42.0
Current at P _{max}	I _m	A	13.04	13.13	13.21
Open-Circuit Voltage	V _{oc}	V	49.9	50.0	50.1
Short-Circuit Current	I _{sc}	A	13.65	13.75	13.83

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

THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	43±2
Temperature Coefficient of P _{max}	γ	%/°C	-0.340
Temperature Coefficient of V _{oc}	β	%/°C	-0.265
Temperature Coefficient of I _{sc}	α	%/°C	+0.049

OPERATING CONDITIONS

Max.System Voltage	DC1500V
Max.Series Fuse Rating	25A
Operating Temperature Range	-40°C ~85°C
Max static snow load	5400Pa
Max static wind load	2400Pa
Application Class	A

CONSTRUCTION MATERIALS

Front Cover(material/type/thickness)	low-iron tempered glass/3.2mm
Cell(quantity/material/type/dimension)	144/monocrystalline/182X91mm
Encapsulant(material)	ethylene vinyl acetate(EVA)
Frame(material/anodization color)	anodized aluminum alloy/silver or black
Junction Box(protection degree)	IP68
Cable(length/cross-sectional area)	4mm ² Landscape:(+)1400/(-)1400mm or Customized Length
Plug Connector	MC4 compatible

GENERAL CHARACTERISTICS

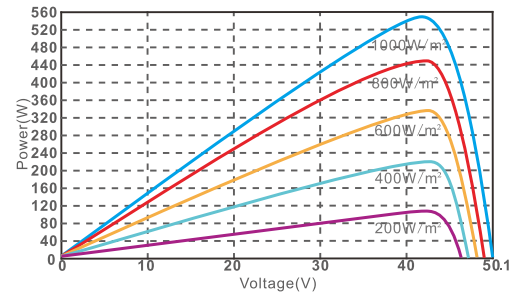
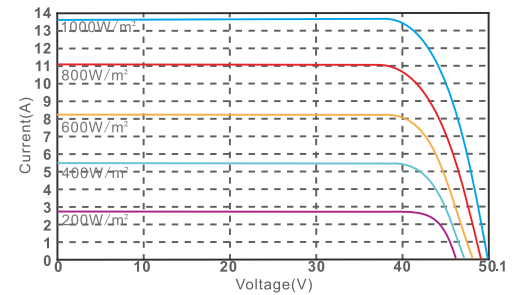
Dimension(L/W/H)	2279/1134/35mm
Weight	27.5kg

PACKING CONFIGURATION

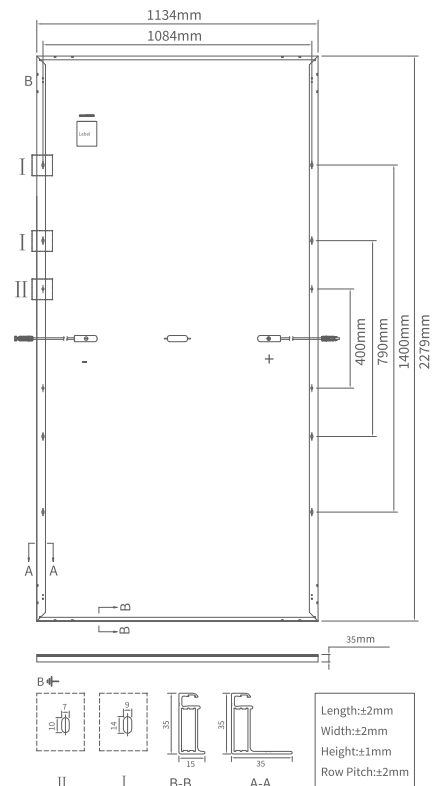
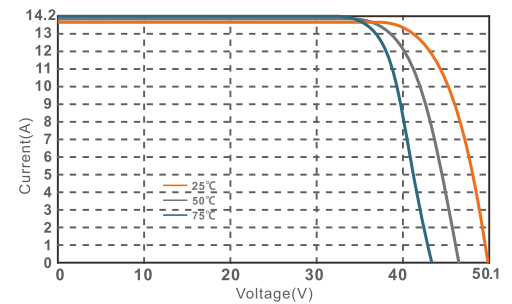
Pallet Size(L/W/H)	2320/1130/2540mm
Pallet Weight	1790kg
Pieces per Pallet	62pcs
Pieces per Container	620pcs

I-V CURVE

I-V characteristics at different irradiances (reference to 555 W)



I-V characteristics at different temperature



Specifications included in this datasheet are subject to change without notice.

Ulica Solar reserves the right of final interpretation.

Version No.: UL-2279-144HVBBC-35-EN-V1.1