# UL-340P-144 UL-345P-144 UL-350P-144



Ulica Solar is a subsidiary of Shanshan Co., Ltd(SH.600884), Top 500 Enterprise in China. Ulica designs and manufactures high-quality solar cells and panels starting from August 2005. Its product line covers both mono and poly crystalline models, suitable for full range of projects from off-grid to ongrid, from residential to commercial.



#### Half-Cell Module

Reduced resistance between cells Less micro cracks, higher output power



Positive power tolerance (0~+5W)



### Outstanding mechanical load resistance

3800 Pa wind load, 5400 Pa snow load



### High performance under low light

Works at cloudy, rainy days



### Anti-PID(potential induced degradation)

Passed anti-PID test under 85% 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 TUV



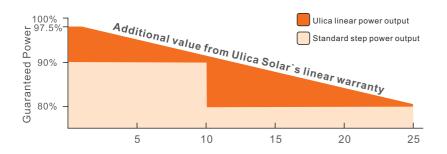
### Double electroluminescence (EL) tests

Carefully inspected before and after lamination to guarantee fault-free modules



### World famous insurance

CHUBB(USA), Solar Insurance&Finance(Netherlands)



### 12-year product warranty

25-year linear power warranty



















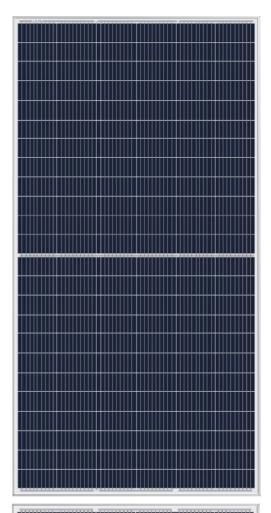








# POLY HALF-CELL

































# POLY 340W/345W/350W



# **F** ELECTRICAL PERFORMANCE

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Module Type			UL-340P-144	UL-345P-144	UL-350P-144
Power Output	Pmax	W	340	345	350
Power Tolerance	△Pmax	W		0/+5W	
Module Efficiency	$\eta$ m	%	17.14	17.39	17.64
Voltage at Pmax	Vm	V	37.4	37.6	37.8
Current at Pmax	lm	Α	9.09	9.18	9.26
Open-Circuit Voltage	Voc	٧	46.4	46.6	46.8
Short-Circuit Current	Isc	Α	9.45	9.53	9.61

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

# **III** THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	45±2
Temperature Coefficient of Pmax	γ	%/°C	-0.390
Temperature Coefficient of Voc	βvoc	%/°C	-0.290
Temperature Coefficient of Isc	αisc	%/°C	+0.049

### **OPERATING CONDITIONS**

Max.System Voltage	1000V/1500V
Max.Series Fuse Rating	15A
Operating Temperature Range	-40°C <b>~</b> 85°C
Max static snow load	5400Pa
Max static wind load	3800Pa
Application Class	Α

# **CONSTRUCTION MATERIALS**

Front Cover(material/type/thickness)	low-iron tempered glass/3.2mm
Cell(quantity/material/type/dimension)	144 /polycrystalline / 156x78mm
Encapsulant(material)	ethylene vinyl acetate(EVA)
Frame(material/anodization color)	anodized aluminum alloy/silver or black
Junction Box(protection degree)	IP67
Cable(length/cross-sectional area)	400mm/4mm <sup>2</sup>
Plug Connector	MC4 compatible

# **FF** GENERAL CHARACTERISTICS

Dimension(L/W/H)	2000/992/40mm
Weight	22.5kg

# **PACKING CONFIGURATION**

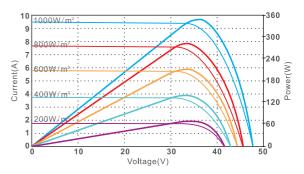
Pallet Size(L/W/H)	2040/1120/2460mm
Pallet Weight	1414kg
Pieces per Pallet	56pcs
Pieces per Container	616pcs

### INTERNATIONAL CERTIFICATES

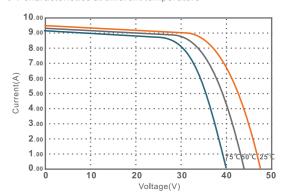
- TÜV SÜD,TÜV NORD,UL,CE,JET,CEC MCS,CQC,IMERTRO,NRE,KS
- · ISO9001:2015
- · ISO14001:2015
- BS OHSAS 18001:2007

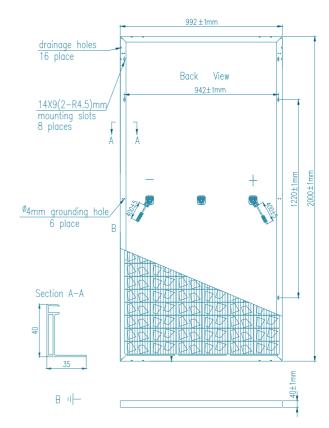
### I-V CURVE

I-V characteristics at different irradiations



I-V characteristics at different temperature





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

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