UL-410M-144HV UL-415M-144HV

Under Shanshan Group, Top 500 Enterprise in China, Ningbo Ulica Solar Co., Ltd. produces our own high quality solar cells and modules starting from August 2005. Our product range covers all from off-grid panels to on-grid panels, both mono-crystalline and poly-crystalline, suitable for all types of installation from residential to commercial projects.

MONO HALF-CELL/PERC

**Mono PERC Half-cell Module**
Reduced resistance between cells
Less micro cracks, higher output power

**Outstanding mechanical load resistance**
Snow load 5400Pa (Frontside), and Wind load 3800Pa (Backside)

**High performance under low light conditions**
Cloudy days, Rainy days

**Double EL test before and after lamination**
Highly control the micro cracks and invisible defects.

**World famous insurance**
CHUBB(USA), Solar Insurance&Finance(Netherlands)

12-year Limited Product Warranty
25-year Limited Performance Warranty
Certificate Holder Name: Ningbo Ulica Solar Co., Ltd

Add: No.181-197 Shanshan Road, Wangchun Industrial District, Ningbo, China
Tel: +86-574-28828978 Fax: +86-574-28828997
Email: ulicasales@ulicasolar.com.cn Web: www.ulicasolar.com
Manufacturer Country: China
Remark: Sorting tolerance as 0~5W in our factory.

**THERMAL CHARACTERISTICS**

Nominal Operating Cell Temperature (NOCT) °C: 45±2
Temperature Coefficient of Pmax: -0.390 %/°C
Temperature Coefficient of Voc: -0.280 %/°C
Temperature Coefficient of Isc: -0.049 %/°C

**OPERATING CONDITIONS**

Max. System Voltage: 1500V
Max. Series Fuse Rating: 10.05 A
Operating Temperature Range: -40°C ~ 85°C
Max static snow load: 5400Pa
Max static wind load: 3800Pa
Safety Class: III
Fire class rating: Class C

**CONSTRUCTION MATERIALS**

Front Cover (material/type/thickness): Low-iron tempered glass/3.2mm
Cell (quantity/material/type/dimension): 144/mocrycristaline/156.75x78.375mm
Encapsulant (material): Ethylene Vinyl Acetate (EVA)
Frame (material/anodization color): Anodized aluminum alloy/silver
Junction Box (protection degree): IP67
Cable (length/cross-sectional area): 400mm²/4mm²
Plug Connector: DC150PV-Z228B/PV-JM601AP/PV-JM608/PV-CY33

**GENERAL CHARACTERISTICS**

Dimension (L/W/H): 2000x922x40mm
Weight: 22.5kg

**PACKING CONFIGURATION**

Pallet Size (L/W/H): 2065/1120/2470mm
Pallet Weight: 1414kg
Pieces per Pallet: 56pcs
Pieces per Container: 616pcs

**INTERNATIONAL CERTIFICATES**

- TÜV SÜD, CE, JET, MCS, CCC, IMERTRO
- ISO9001:2015
- ISO14001:2015
- BS OHSAS 18001:2007

Please read the installation manual in this entirety before handling, installing, and operating Ulica Solar modules. Due to continuous innovation, research and improvement, the specification is subject to change without prior notice.