深圳市联立太阳能有限公司
Shenzhen Lianli Solar Energy Co.,Ltd

Add:Floor 3, Building B, 154 Guanping Road, Guanlan Street, Longhua New District, Shenzhen, Guangdong Province,China

Web: www.llsolar.com

Attn: Zoey Wu **Tel/Wechat:** +86 13699825781 **Email:** sales3@llsolar.com

Cutomer:

Product Name:300W IBC ETFE Integrated Solar Panel

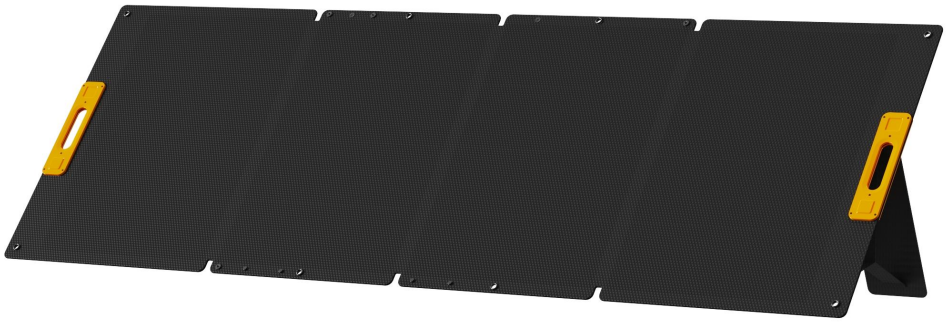
Product Model: LL-YT300W

Using Surroundings: Outdoor

Date: 20th,July,2025

Draft:Mr Zeng **Auditor: Mr Zhao** **Confirmation: Mr Wen**

1. The front and back side of solar panel effect picture(Drawing Show)



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2. Solar Paenl Output Electrical performance:

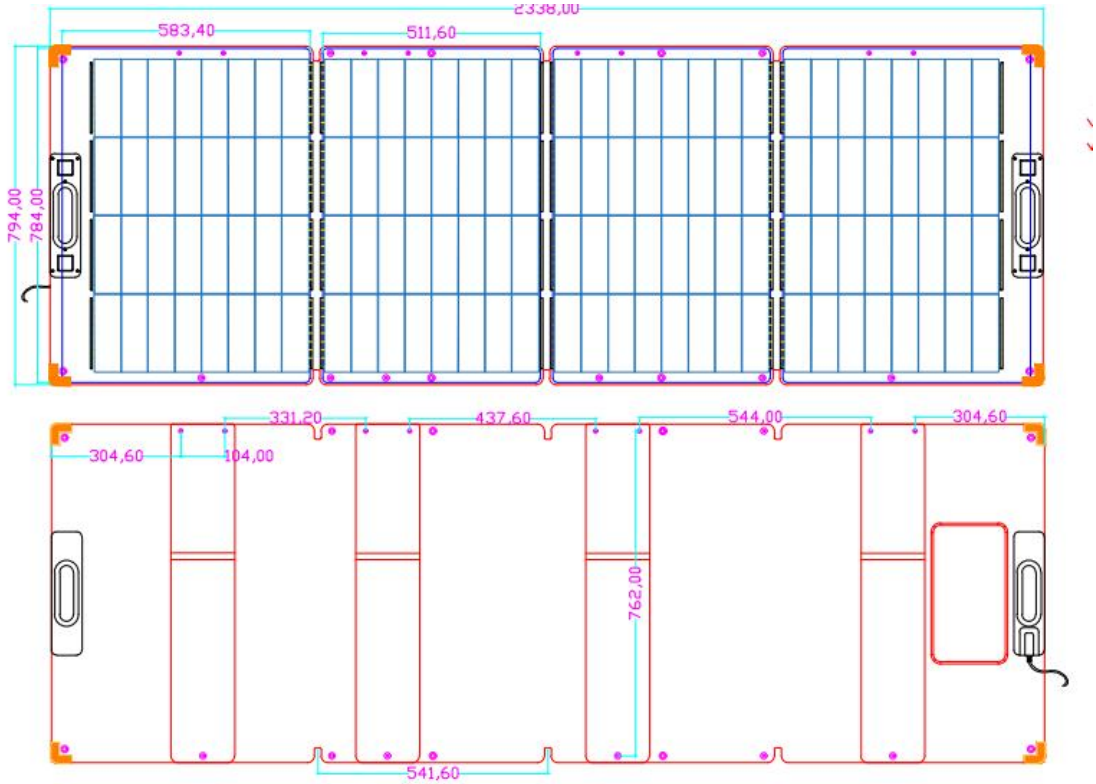
Output Power（@STC ）	337.5W ±5%
Open Voltage（@STC）	44.8V ±5%
Standard Voltage（@STC）	36.48V ±5%
Standard Current（@STC）	9.25A ±5%
Short Circuit（@STC）	10.08A ±5%

Note: STC: Standard Tested Condition: AM=1.5 , 25℃ , 1000W/㎡

3. Solar Panel Basic Specification:

Unfolded Size	**2338*794*27±1MM**
Folded Size	**627*794*42±1MM**
Net Weight	**8.97KG±0.10KG**

Size Specification (Drawing)



4. The fabric label inside of Pouch or Accessory Pocket

LL SOLAR

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5. Solar Panel Component and Material Specification:

Compound Material	Newest Carbon Fiber Material(Similar as bulletproof fiber)
PV welding strip	0.6*0.18mm
Braided copper tape	250/0.07
Solar cells	**HPBC solar cells,25% efficiency,**0.18mm ,
EVA	0.45mm
ETFE	0.02mm, matte
Fabric between solar cells and EVA	0.3mm
Fabric backside	0.4mm
Gun black eyelets	Inner-Diameter:10mm,Outer diameter:16.5mm
Gun black screw buckle	Diameter-of-axle-5mm,axial length-4mm,Cover diameter-9.5mm
Black gun button	Surface buckle diameter 15mm matching
Handle shell	29x7.2x3.1CM,built in diode
Connector and cable	MC4,AWM2464 14AWG,5M long
Bottom board of support	1.6mm
Elastic band	630mm+elastic belt 210mm,Nylon cloth edge sealing
Corner protector	TPU,color number:2013U

6. Laminated method and surface effect:

1) Lamination:multiple layers material by hot pressing;
2) Surface effect of solar panel: front- matt ETFE, back-waterproof cloth;
3) Silicone inside the wiring board.

7. Warranty:

1 Year.

8. Standard method of electrical performance and using environment

1) Working power tested after lamination;
2) Solar radiation intensity: 1000W/m^2 or customer sample;
3) Temperature: 25 ℃;
4) Humidity: 10~90%;
5) Air quality: AM1.5

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9. Working Power Test

1) Adjust the light strength to the customer's signature of sample;
2) Tested by IV tester;
3) Correct the light intensity every 2 hours

10. Environmental conditions for use and storage

1) Storage conditions: room temperature, humidity not more than 60%;
2) Use in an unobstructed outdoor environment under sunlight;
3) Working environment temperature: - 20 ℃~60 ℃;
4) Temperature of soldering iron: 360 ± 10 ℃;
5) The time of spot welding shall not exceed 3 seconds, and the interval time between multiple spot welding shall not be less than 30 seconds.

11. Appearance inspection requirements:

Explanation: During the appearance inspection, the handheld product is parallel to the line of sight, with a visual distance of 30 centimeters, a tilt of 45 degrees, and a left and right deviation of 15 degrees. If no obvious defects are found within 5 seconds, it is considered qualified.

Code description: L: length W: width H: height D: distance N: quantity ⊙: diameter

1)Single panel, no obvious color difference under indoor lighting;
2)The silicon wafers are arranged neatly;
3)Silicon chip edge collapse and missing corner: L ≤ 3.5mm W ≤ 3.5mm N ≤ 8;
4)Surface stains on silicon wafers: ⊙ ≤ 4mm N ≤ 8;
5) Scratch: L ≤ 10mm;
6)No obvious bright spot: W ≤ 1.5mm N ≤ 6;
7）There is dirty between Solar cells, and the spot area: ⊙ ≤ 0.8mm N ≤ 8;
8）Tin slag, bubbles and foreign matters in the glue: ⊙ ≤ 2.5mm N ≤ 6;
9）For laser cutting process, the tolerance range of length and width is ± 0.5mm;

If there is any dispute over the above standards, the limit sample confirmed by both parties shall prevail

12. Package Details:

Packaging content: solar panels, instruction manual, color box, outer box (single package)

Packaging size specifications:

1PCS/C	Unit Product	Unit Product	Master Box

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TN		with inner box	
Weight	8.97KGS	9.8KGS	11.3KGS
Size	627*794*42MM	705*870*105MM	720*870*130MM