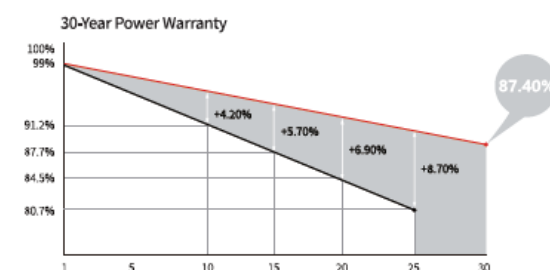


**LR7-72HGD 585~620M**

## HALF-CELL

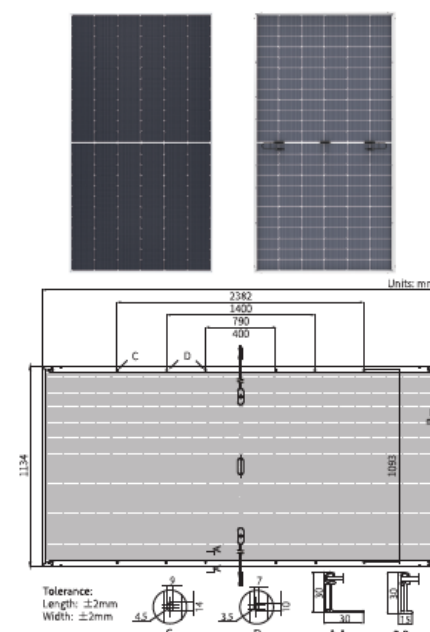
Lower operating temperature

### Additional Value



### Mechanical Parameters

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| Cell Orientation | 144 (6×24)                                                          |
| Junction Box     | IP68, three diodes                                                  |
| Output Cable     | 4mm <sup>2</sup> , +400, -200mm/±1400mm<br>length can be customized |
| Glass            | Dual glass, 2.0+2.0mm semi-tempered glass                           |
| Frame            | Anodized aluminum alloy frame                                       |
| Weight           | 33.5kg                                                              |
| Dimension        | 2382×1134×30mm                                                      |
| Packaging        | 36pcs per pallet / 180pcs per 20' GP / 720pcs per 40' HC            |



### Electrical Characteristics

| Electrical Characteristics       |                | STC : AM1.5 1000W/m² 25°C |                |                |                | NOCT : AM1.5 800W/m² 20°C 1m/s |                |                |       | Test uncertainty for Pmax : ±3% |       |       |       | A-A   |       | B-B   |  |
|----------------------------------|----------------|---------------------------|----------------|----------------|----------------|--------------------------------|----------------|----------------|-------|---------------------------------|-------|-------|-------|-------|-------|-------|--|
| Module Type                      | LRT-72HGD-585M | LRT-72HGD-590M            | LRT-72HGD-595M | LRT-72HGD-600M | LRT-72HGD-605M | LRT-72HGD-610M                 | LRT-72HGD-615M | LRT-72HGD-620M |       |                                 |       |       |       |       |       |       |  |
| Testing Condition                | STC            | NOCT                      | STC            | NOCT           | STC            | NOCT                           | STC            | NOCT           | STC   | NOCT                            | STC   | NOCT  | STC   | NOCT  | STC   | NOCT  |  |
| Maximum Power (Pmax/W)           | 585            | 445.3                     | 590            | 449.1          | 595            | 452.9                          | 600            | 456.7          | 605   | 460.6                           | 610   | 464.4 | 615   | 468.2 | 620   | 472.0 |  |
| Open Circuit Voltage (Voc/V)     | 51.89          | 49.32                     | 52.00          | 49.42          | 52.11          | 49.53                          | 52.22          | 49.63          | 52.33 | 49.73                           | 52.44 | 49.84 | 52.55 | 49.94 | 52.66 | 50.05 |  |
| Short Circuit Current (Isc/A)    | 14.25          | 11.45                     | 14.33          | 11.51          | 14.41          | 11.58                          | 14.49          | 11.64          | 14.57 | 11.70                           | 14.65 | 11.76 | 14.73 | 11.83 | 14.81 | 11.90 |  |
| Voltage at Maximum Power (Vmp/V) | 43.79          | 41.62                     | 43.90          | 41.72          | 44.01          | 41.83                          | 44.12          | 41.93          | 44.23 | 42.03                           | 44.34 | 42.14 | 44.44 | 42.23 | 44.55 | 42.34 |  |
| Current at Maximum Power (Imp/A) | 13.36          | 10.70                     | 13.44          | 10.77          | 13.52          | 10.83                          | 13.60          | 10.89          | 13.68 | 10.96                           | 13.76 | 11.03 | 13.84 | 11.09 | 13.92 | 11.15 |  |
| Module Efficiency(%)             | 21.7           |                           | 21.8           |                | 22.0           |                                | 22.2           |                | 22.4  |                                 | 22.6  |       | 22.8  |       | 23.0  |       |  |

## Electrical characteristics with different rear side power gain (reference to 605W front)

| Pmax/W | Voc/V | Isc/A | Vmp/V | Imp/A | Pmax gain |
|--------|-------|-------|-------|-------|-----------|
| 635    | 52.33 | 15.30 | 44.23 | 14.36 | 5%        |
| 666    | 52.33 | 16.03 | 44.23 | 15.05 | 10%       |
| 696    | 52.43 | 16.76 | 44.33 | 15.73 | 15%       |
| 726    | 52.43 | 17.49 | 44.33 | 16.41 | 20%       |
| 756    | 52.43 | 18.22 | 44.33 | 17.10 | 25%       |

### Operating Parameters

|                                    |                           |
|------------------------------------|---------------------------|
| Operational Temperature            | -40°C ~ +85°C             |
| Power Output Tolerance             | 0 ~ 3%                    |
| Voc and Isc Tolerance              | ±3%                       |
| Maximum System Voltage             | DC1500V (IEC/UL)          |
| Maximum Series Fuse Rating         | 30A                       |
| Nominal Operating Cell Temperature | 45±2°C                    |
| Protection Class                   | Class II                  |
| Bifaciality                        | 80±5%                     |
| Fire Rating                        | UL type 29<br>IEC Class C |

### Mechanical Loading

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Front Side Maximum Static Loading | 5400Pa                               |
| Rear Side Maximum Static Loading  | 2400Pa                               |
| Hailstone Test                    | 25mm Hailstone at the speed of 23m/s |

### Temperature Ratings (STC)

|                                 |            |
|---------------------------------|------------|
| Temperature Coefficient of Isc  | +0.045%/°C |
| Temperature Coefficient of Voc  | -0.230%/°C |
| Temperature Coefficient of Pmax | -0.280%/°C |

Specifications included in this datasheet are subject to change without notice. LONGi reserves the right of final interpretation.  
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No.8369 Shangyuan Road, Xi'an Economic And  
Technological Development Zone, Xi'an, Shaanxi, China  
**Web:** [www.longi.com](http://www.longi.com)