

Capture more sunlight

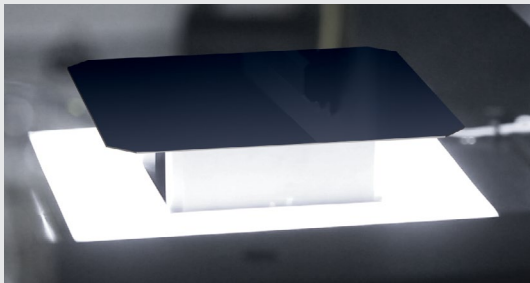
LG's NeON R back contact cell is a high-power premium solar cell cleverly designed so that the entire front surface of the cell is exposed to sunlight – thereby producing more energy than conventional cells. It also results in a clean, sleek look.

Eliminate Light-induced Degradation (LID)

Conventional solar cells are adversely affected light-induced degradation, which means they lose up to 3% of their initial power as soon as they are exposed to sunlight. But because LG's back contact cell uses N-type technology, it is not subject to light-induced degradation.

Enhance performance in high temperatures

LG's back contact cell features a lower temperature coefficient and maintains a lower normal operating temperature than conventional cells. This helps increase energy production - and makes LG's back contact cell the perfect choice in hot and sunny locations.



LG Back Contact Cell – Technical Specifications (Model Name: LC6NQA-xxx)

ELECTRICAL PERFORMANCE

| Grade | Eff(%) | Pmpp(W) | Vmpp(V) | Imp(A) | Voc(V) | Isc(A) | FF(%) |
|-------|------------|---------|---------|--------|--------|--------|-------|
| 1 | 2250-2359% | 5.81 | 0.600 | 9.69 | 0.719 | 10.51 | 76.94 |
| 2 | 2230-2249% | 5.76 | 0.596 | 9.67 | 0.719 | 10.50 | 76.34 |
| 3 | 2100-2229% | 5.42 | 0.571 | 9.50 | 0.715 | 10.45 | 72.59 |

* Measured under Standard Test Condition (STC) : AM 1.5, 25 °C, 1000 W/m²
* The above data are average values.

LIGHT INTENSITY DEPENDENCE

| | Imp (%) | Vmpp (%) |
|-----------------------|---------|----------|
| 1000 W/m ² | 100 | 100 |
| 800 W/m ² | 80 | 99 |
| 600 W/m ² | 60 | 98.2 |
| 400 W/m ² | 40 | 97.2 |
| 200 W/m ² | 20 | 94.2 |

* The above data are average values

TEMPERATURE COEFFICIENTS

| | |
|------------------|---------------|
| Voltage (Voc) | - 0.261 [%/K] |
| Current (Isc) | + 0.042 [%/K] |
| Fill factor (FF) | - 0.006 [%/K] |
| Power (Pmpp) | - 0.190 [%/K] |
| Efficiency (η) | - 0.202 [%/K] |

MECHANICAL DATA AND DESIGN

| | |
|------------|--|
| Product | N-type Mono-crystalline silicon solar cell |
| Dimensions | 161.7 mm X 161.7 mm ± 1.0 mm (Pseudo square) |
| Thickness | 165μm ± 30 μm |
| Front | Dark-blue anti-reflective coatings |
| Back | 260μm (±30μm) finger 161ea, 200μm (±30μm) finger 160ea |

Dimensions

