

### Mechanical Properties

Cell Configuration	66 Cells (6 x 11)
Cell Maker	LG
Cell Properties	Monocrystalline / N-type
Dimensions (L x W x H)	1910 x 1042 x 40 mm
Front Load (test)	5400 Pa
Rear Load (test)	4000 Pa
Weight	20.5kg
Connector Type	Genuine MC4, IP68 (Male: PV-KST4) (Female: PV-KBT4)
Junction Box	IP68 with 3 bypass diodes
Length of Cables	2 x 1250 mm EA
Glass (Material)	Tempered Glass with AR Coating
Frame	Anodised aluminum with white backsheet

### Certifications and Warranty

Certifications	ISO 9001, ISO 14001, ISO 50001 IEC 61215-1 / -1-1 / 2:2016, IEC 61730-1 / 2:2016, UL 61730-1:2017, UL 61730-2:2017 OHSAS 18001
Salt Mist Corrosion Test	IEC 61701 : 2011 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Fire Rating	Class C (UL 790)
Product Warranty	25 Years
Output Warranty of Pmax (Measurement Tolerance ± 3%)	Linear Warranty <sup>1</sup>

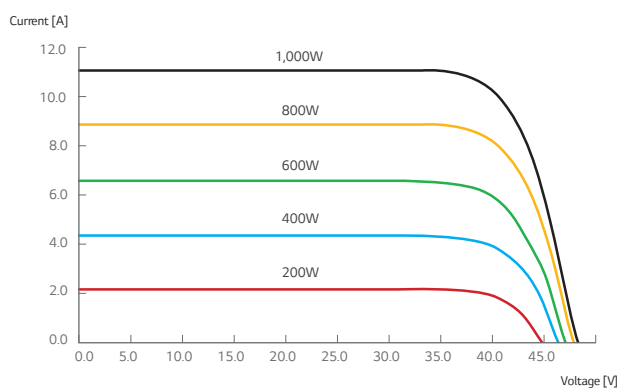
<sup>1</sup> 1) 1st year 98.5%, 2) After 1st year: 0.25% annual degradation, 3) 92.5% after 25 years

### Temperature Characteristics

NMOT*	44 ± 3 °C
Pmax	-0.29 %/°C
Voc	-0.24 %/°C
Isc	0.04 %/°C

\* NMOT (Nominal Module Operating Temperature)  
: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1m/s, Spectrum AM 1.5

### I-V Curves



### Electrical Properties (STC<sup>2</sup>)

Module Type	LG440QAC-A6	LG435QAC-A6
Maximum Power Pmax (W)	440	435
MPP Voltage Vmpp (V)	41.4	41.1
MPP Current Impp (A)	10.64	10.59
Open Circuit Voltage Voc (V)	48.2	48.0
Short Circuit Current Isc (A)	11.20	11.20
Module Efficiency (%)	22.1	21.9
Operating Temperature (°C)	-40 ~ +85	
Maximum System Voltage (V)	1000 (IEC)	
Maximum Series Fuse Rating (A)	20	
Power Tolerance (%)	0 ~ +3	

<sup>2</sup> STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, Module Temperature 25 °C, AM 1.5.  
The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

### Electrical Properties (NMOT<sup>3</sup>)

Module Type	LG440QAC-A6	LG435QAC-A6
Maximum Power Pmax (W)	334	330
MPP Voltage Vmpp (V)	39.1	38.8
MPP Current Impp (A)	8.53	8.49
Open Circuit Voltage Voc (V)	46.0	45.8
Short Circuit Current Isc (A)	9.03	9.02

<sup>3</sup> NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s, Spectrum AM 1.5.

### Dimensions (mm)

