

LG405Q1C-A6 | LG400Q1C-A6 | LG395Q1C-A6 | LG390Q1C-A6 | LG385Q1C-A6

General Data

Cell Properties (Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	60 Cells (6 x 10)
Module Dimensions (L x W x H)	1,740 x 1,042 x 40mm
Weight	18.5kg
Glass (Material)	Tempered Glass with AR coating
Backsheet (Color)	White
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,250mm x 2EA
Connector (Type / Maker)	MC4 / MC

Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2:2016, IEC 61730-1/2:2016, UL 61730-1:2017, UL 61730-2:2017 ISO 9001, ISO 14001, ISO 50001 OHSAS 18001
Salt Mist Corrosion Test	IEC 61701:2012 Severity 6
Ammonia Corrosion Test	IEC 62716:2013
Hail Test	25mm (1") diameter at 23 m/s (52 mph)
Module Fire Performance	Type 1 (UL 61730)
Fire Rating	Class C (UL 790, ULC / ORD C 1703)
Solar Module Product Warranty	25 Years
Solar Module Output Warranty	Linear Warranty*

* 1) First years : 98.5%, 2) After 1st year : 0.25% annual degradation, 3) 92.5% for 25 years (TBD)

Temperature Characteristics

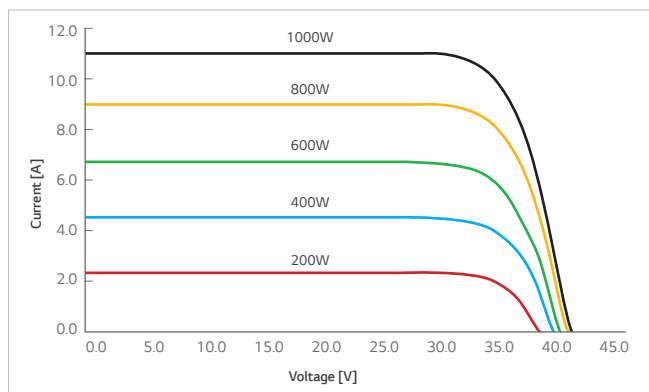
NMOT*	[°C]	44 ± 3
Pmax	[%/°C]	-0.29
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.04

* NMOT (Nominal Module Operating Temperature) : Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s, Spectrum AM 1.5

Electrical Properties (NMOT)

Model	LG405Q1C-A6	LG400Q1C-A6	LG395Q1C-A6	LG390Q1C-A6	LG385Q1C-A6
Maximum Power (Pmax) [W]	307	303	299	296	292
MPP Voltage (Vmpp) [V]	35.4	35.2	34.9	34.7	34.4
MPP Current (Impp) [A]	8.67	8.62	8.57	8.52	8.47
Open Circuit Voltage (Voc) [V]	41.9	41.8	41.6	41.5	41.4
Short Circuit Current (Isc) [A]	9.15	9.13	9.10	9.07	9.05

I-V Curves



Electrical Properties (STC*)

Model	LG405Q1C-A6	LG400Q1C-A6	LG395Q1C-A6	LG390Q1C-A6	LG385Q1C-A6
Maximum Power (Pmax) [W]	405	400	395	390	385
MPP Voltage (Vmpp) [V]	37.5	37.2	37.0	36.7	36.5
MPP Current (Impp) [A]	10.82	10.76	10.69	10.63	10.57
Open Circuit Voltage (Voc, ±5%) [V]	43.9	43.8	43.6	43.5	43.4
Short Circuit Current (Isc, ±5%) [A]	11.35	11.32	11.29	11.26	11.23
Module Efficiency [%]	22.3	22.1	21.8	21.5	21.2
Power Tolerance [%]	0 ~ +3				

* STC (Standard Test Condition) : Irradiance 1000 W/m², Cell temperature 25°C, AM 1.5, Measure tolerance : ±3%

Operating Conditions

Operating Temperature*	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load** (Front)	[Pa]	5,400
Mechanical Test Load** (Rear)	[Pa]	4,000

* The operating ambient temperature of these devices may exceed 40°C at full load for all wire sizes if is determined suitable in the field use application.

** Based on IEC 61215-2 : 2016 (Test Load = Design Load x Safety Factor(1.5))

Packaging Configuration

Number of Modules Per Pallet	[EA]	25
Number of Modules Per 40ft HQ Container	[EA]	650
Packaging Box Dimensions (L x W x H)	[mm]	1,790 x 1,120 x 1,227
Packaging Box Gross Weight	[kg]	498

Dimensions (mm/inch)

