



Efficient allrounder

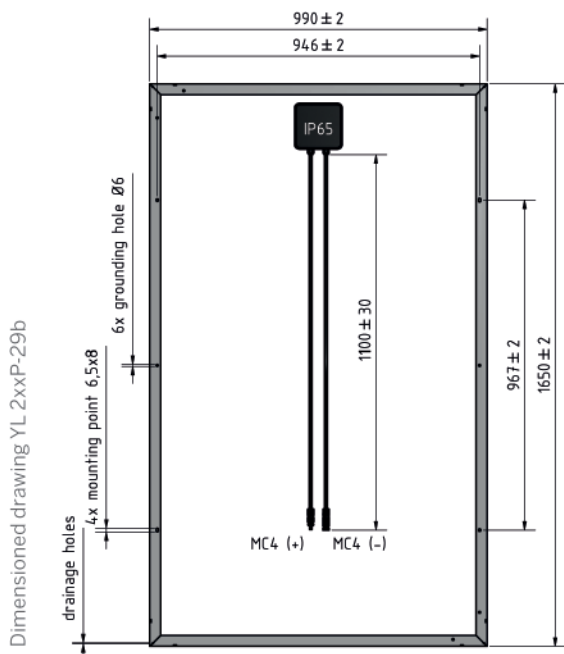
Yingli YL235P-29b, YL245P-29b

Solar modules made by polycrystalline silicon

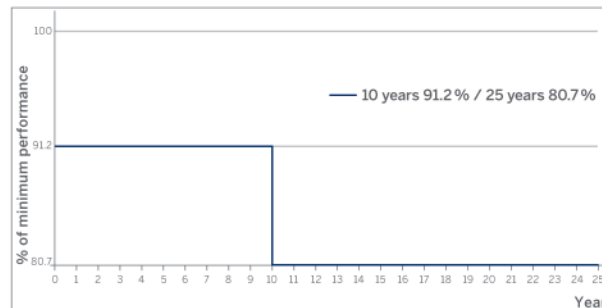
From single-family homes to open-air systems - the modules in the Yingli P-29b series can be used universally. One of their strongest features is their efficiency. Very efficient polycrystalline solar cells combined with ultra-transparent solar glass produce optimal yields. You can benefit from above-average output thanks to the positive output tolerance of 0/+5 Wp. The robust, corrosion-resistant aluminum frame provides mechanical stability for the entire lifetime of the module. The quality of the modules is continuously monitored in our own laboratory.

Highlights

- 10-year product warranty*
- Power warranty*
 - 10 Years (91,2%)
 - 25 Years (80,7%)
- Power tolerance -0/+5 Wp
- Tested according IEC 61215 for snow loads up to 5400 Pa (ca. 550 kg/m²)
- IEC 61730, application class A for system voltages up to 1000 V, protection class II
- Produced in ISO 9001 and ISO 14001-certified factories
- 100% end control with individual registration of the electrical characteristics
- Quality tested by IBC SOLAR in own laboratory with climate chambers and flasher with integrated electroluminescence measurement



Progression of the power warranty



TECHNICAL DATA

Yingli	235P-29b	245P-29b
STC Power Pmax (Wp)	235	245
STC Nominal Voltage Umpp (V)	29.5	30.2
STC Nominal Current Impp (A)	7.97	8.11
STC Open circuit voltage Uoc (V)	37.0	37.8
STC Short circuit current Isc (A)	8.54	8.63
800 W/m ² NOCT AM1.5 Power Pmax (Wp)	170.7	177.9
800 W/m ² NOCT AM1.5 Nominal Voltage Umpp (V)	26.6	27.2
800 W/m ² NOCT AM1.5 Open Circuit Voltage Uoc (V)	33.8	34.5
800 W/m ² NOCT AM1.5 Short Circuit Current Isc (A)	6.92	6.99
Rel. efficiency reduction @ 200W/m ² (%)	5	5
Tempcoeff Isc (%/°C)	+0.06	+0.06
Tempcoeff Uoc (mV/°C)	-122	-127
Tempcoeff Pmpp (%/°C)	-0.45	-0.45
Module Efficiency (%)	14.4	15.0
NOCT (°C)	46	46
Max. System Voltage (V)	1000	1000
Max. Reverse Current Ir (A)	15	15
Current value String fuse (A)	12	12
Fuse protection from parallel strings	3	3
Height (mm)	40	40
Weight (kg)	19.1	19.1
Article number	2201700049 2201700050	2201700048

2013-02-05

Your IBC SOLAR partner:

* Product and power warranty in accordance with the version of the full warranty conditions received from your specialized IBC SOLAR partner at the time of installation. This warranty is valid only when the relevant product is installed in accordance with the applicable installation instructions. Electrical values under standard test conditions: 1000W/m²; 25°C, AM1.5. 800 W/m², NOCT. Specifications according EN60904-3 (STC). All datas according DIN EN 50380. Subject to modifications that represent progress.