

LARGE CRYSTALLINE PHOTOVOLTAIC MODULES FOR MEGA WATT GRID SYSTEMS
AND FOR BUILDING INTEGRATION

LATITUDE
P6-60/6



LATITUDE**SOLAR**

LATITUDE P6-60/6

Guarantee
Power performance of modules will after 10 years be at least 90% and after 25 years be at least 80% of the minimum rated power performance at time of delivery.

Ideal for megawatt grid systems and building integration



Unique glass design and use of high quality crystalline solar cells boost daily energy output to maximum possible

Designed and manufactured entirely based on well proven materials and manufacturing processes

The Latitude P6-60/6 module is manufactured at Latitude Solar's production facility in Scandinavia. The module is built entirely from components that have been tested and certified individually according to the IEC 61215 standard. The module is thus certified according to IEC 61215 & IEC 61730.

The solar cells used in the Latitude Solar module are polycrystalline from cell manufacturers producing high quality solar cells.

THE HIGH ENERGY YIELD IS ACHIEVED BY UNIQUE FEATURES:

The prismatic glass.

Cells sorted according to the shunt resistance.

The 3 ribbon cells reduce the ohmic resistance in the cell strings.

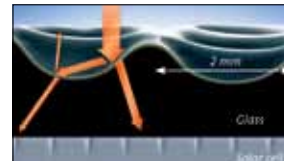
The combined effect of the special features of Latitude Solar modules is often seen to provide a performance increase of at least 4-8% superior to similar solar modules.

The Latitude P6-60/6 module for grid feed systems is a strong design, with 4 mm hardened glass, 1000 Volt insulation level, and a "slim line" alu frame with drain holes. The module is designed for high snow loads, and is tested to 5400 PA (=550 kg/m²). The hardened glass protects the cells against harsh weather, such as hail, ice and storms. The chemical resistance of the back sheet makes the module suitable for installations in agricultural environments.

The effective quality assurance system, the automatic production lines and a 100% end-control of every module that leaves the factory, ensures that our customers receive only premium quality solar modules. In order to document the consistent quality of our product factory inspections are performed periodically by technical inspection agencies.

Unique glass design

Lens-structured glass surface traps sun rays better, allowing Latitude Solar modules to produce at least 3-6% higher annual energy yield than competitors



Antireflection effect.



Light-trapping effect.

Illustration: Saint-Gobain Solar

10 years product guarantee.

25 years performance guarantee.

Purely positive module classification (-OWp/+4,99Wp).

High energy yield.

Suitable for installation in agricultural environment.

Periodical factory inspections.

Scandinavian quality.

TECHNICAL DATA

Mechanical Specifications

Length:	1651 ± 2 mm
Width:	987 ± 2 mm
Height:	35 mm
Weight:	22 kg
Junction box:	IP65, 3 by-pass diodes, 1000V
Cable:	4 mm ² , l = 1000 mm, 1000V
Glass:	4 mm, hardened, anti-reflection
Cells:	Polycrystalline, 60 pcs, 156 x 156 mm
Cell encapsulation material:	EVA (Ethylene-Vinyl-Acetate)
Back sheet material:	Fluoropolymer/polyester, 1000V
Frame:	Aluminium, hollow chamber profile w. flange

Temperature coefficients

Current temperature coefficients	α (I _{sc})	+ 0.07 %/°K
Voltage temperature coefficients	β (U _{oc})	- 0.33 %/°K
Power temperature coefficients	γ (P _{mpp})	- 0.40 %/°K
Nominal Operation Cell Temperature	NOCT	43,5°C

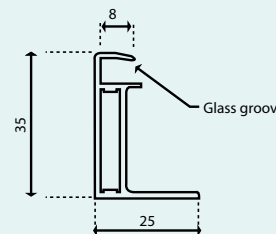
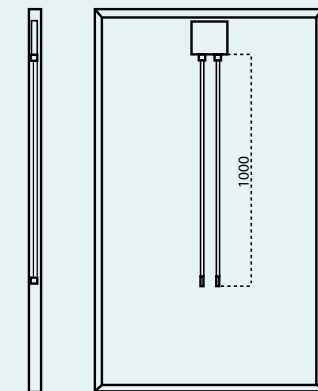
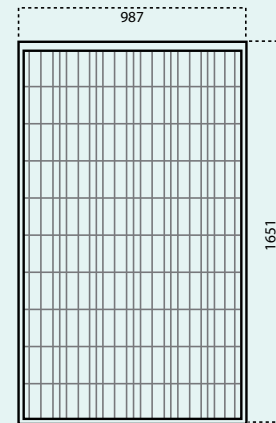
Electrical Characteristics at Standard Test Conditions (STC)

Nominal power	P _{mpp} *	230	235	240	245	250
Sorting range	Watt	230,0-234,9	235,0-239,9	240,0-244,9	245,0-249,9	250,0-254,9
Peak power voltage	U _{mpp}	29,19	29,37	29,55	29,73	29,91
Peak power current	I _{mpp}	7,88	8,00	8,12	8,24	8,36
Open circuit voltage	U _{oc}	36,56	36,78	36,96	37,15	37,35
Short circuit current	I _{sc}	8,27	8,38	8,49	8,60	8,72
Module efficiency		14,10%	14,40%	14,70%	15,00%	15,30%

Purely positive module classification (-OWp/+ 4,99Wp)

Maximum system voltage: 1000 V - **mpp** stands for Maximum Power Point.

STC: irradiation level 1000 w/m², spectrum AM 1,5 and cell temperature 25°C



Solar module Latitude P6-60/6 certified by


VDE

TÜV

IEC 61215
IEC 61730
Safety Class II



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