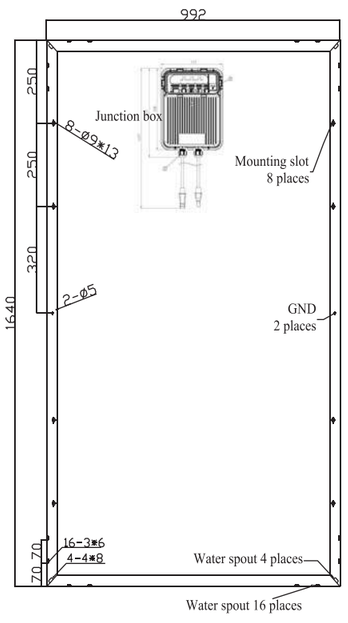
SunLink PV®

UP TO 25% MORE ENERGY

250 W Maximum Power

High Efficiency Poly-crystalline
Solar Module



BENEFITS

- High and stable conversion efficiency based on over 9 years professional experience
- High reliability with guaranteed 0 - + 3 % output power tolerance
- Proven materials, tempered front glass and a sturdy anodized aluminum frame allow modules to operate reliably in multiple mountily configuration
- Combination of high efficiency and attractive appearance

QUALITY AND SAFETY

- 25-year output power warranty
- ISO9001: 2008, ISO14001, ISO18001 certified factory.
- IEC 61215, Safety tested IEC 61730, CE
- Product Liability Insurance guarantee end users' benefit
- Hail impact: 277 g steel ball falling from 1 m height, 60 m/s wind speed
  increased snow load according to IEC 61215: up to 5400 N/m²
  wind load and suction according to IEC 61215: up to 2400 N/m²

TEMPERATURE COEFFICIENTS

Temperature coefficients		at 1000 W/m², 25 ˚C, air mass: 1.5
Voltage coefficient (V_{oc})	β	- 0.35 %/K
Current coefficient (I_{sc})	α	+ 0.055 %/K
Power coefficient (P_{mpp})	γ	- 0.45 %/K
Minimum power tolerance		0 - + 3 %

SunLink PV Technology Co., Ltd.
Nanyuan Road, Zhangjiagang Economic Development Zone,
Jiangsu Province, 215600, China.
Tel: +86-512-58166568 58166566
Fax: +86-512-58166560
www.sunlink-pv.com

250 W Maximum Power

TECHNICAL DATA

Solar cell	60 poly-crystalline 156 × 156 mm
Front glass	3.2 mm tempered glass
Junction box	SolarEdge Power Optimizer
Output cables	1000 mm length cable, compatible with MC Ⅳ connectors
Frame	anodized aluminium
Weight	19 kg
Dimensions	1640 × 992 × 45 mm

ELECTRICAL DATA

Module Type	SL220-20P250	SL220-20P245	SL220-20P240	SL220-20P235	SL220-20P230
Nominal peak power (P_{max})	250 W	245 W	240 W	235 W	230 W
Nominal voltage (V_{mpp})	30.5 V	30.3 V	30.1 V	30.0 V	29.9 V
Nominal current (I_{mpp})	8.20 A	8.08 A	7.97 A	7.83 A	7.69 A
Open circuit voltage (V_{oc})	37.3 V	37.2 V	37.2 V	37.2 V	37.2 V
Short circuit current (I_{sc})	8.79 A	8.66 A	8.60 A	8.40 A	8.24 A
Module efficiency	15.4 %	15.0 %	14.7 %	14.4 %	14.1 %
Operating Temperatre	- 40 to + 85 ˚C	- 40 to + 85 ˚C	- 40 to + 85 ˚C	- 40 to + 85 ˚C	- 40 to + 85 ˚C
Maximum System Voltage	1000 V DC	1000 V DC	1000 V DC	1000 V DC	1000 V DC
STC: Irradiation: 1000 W/m², module temperature: 25 ˚C, air mass: 1.5 (EN 60904-3)					
Maximum power (P_{max})	180 W	176 W	173 W	169 W	166 W
Nominal voltage (V_{mpp})	29.2 V	29.0 V	28.8 V	28.7 V	28.6 V
Nominal current (I_{mpp})	6.17 A	6.08 A	6.0 A	5.89 A	5.79 A
Open circuit voltage (V_{oc})	34.4 V	34.3 V	34.3 V	34.3 V	34.3 V
Short circuit current (I_{sc})	6.55 A	6.45 A	6.41 A	6.26 A	6.14 A
NOCT: Irradiation: 800 W/m², module temperature: 45 ˚C, air mass: 1.5 Performance under weak light conditions (200 W/m²) EN60904-1, 95.3 % or higher of the STC efficiency (1000 W/m²) is achieved					

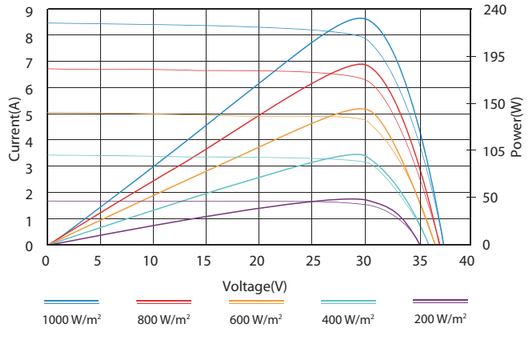
PACKING CONFIGURATION

Container	20' GP	40' GP	40' HC
Pieces per pallet	22	22	23
Pallets per container	12	28	28
Pieces per container	264	616	644

WARRANTY AND CERTIFICATIONS

Warranty	10 years workmanship 12 years 90 % of the nominal power warranty 25 years 80 % of the nominal power warranty
Certifications	IEC 61215, Safety tested IEC 61730 part 2, CE

Current-Voltage & Power-Voltage Curve (SL220-20P230)



SunLink PV APPOINTED DEALER

OPJ300-LV provides the following functionality:

Module-level Maximum Power Point Tracking (MPPT)
Module-level Monitoring *
SafeDC™ - When AC supply to the SolarEdge (SE) inverter or Safety and Monitoring Interface (SMI) is shut off, by shutting off the AC breaker at the site, or when the inverter ON/OFF switch is turned to OFF, the DC voltage drops to a safe voltage of 1V per optimizer *

* Module-level monitoring and SafeDC™ are available only when the OPJ300-LV installed with SolarEdge inverter or with SolarEdge Safety & Monitoring Interface.

OPJ300-LV Embedded Optimizer Specifications Overview

Electrical Ratings

- Nominal Input Power: up to 330W
- Absolute Maximum Input Voltage (Voc): 55V
- MPPT Operating Range: 5-55 VDC
- Maximum Input Current: 10A
- Maximum Input Bypass Current: 10A
- Minimum Peak Efficiency: 99.5%
- European Weighted Efficiency: 98.8%
- CEC Weighted Efficiency: 98.7%
- Maximum Output Current: 15A
- Operating Output Voltage: 5-60VDC (with SolarEdge Inverter)
- Safety Output Voltage: 1VDC
- Rated System Voltage: 1000 VDC (EU) / 600VDC (North America)
- Over voltage category: III
- Rated Impulse Voltage: 12 kV
- Application Class: Class A according to EN 61730-1:2007
- Pollution Degree: 3
- Termination and connection method: 4 bus-bar connections
- Terminals surface: Clean and homogeneous
- Cable Diameter for cable gland: 6.9-7.6 mm
- Wire cross section: 6 mm^2
- Type of bypass diode: 3 x STPS20H100CG

Environmental

- Lower ambient temperature: -40 °C
- Upper ambient temperature: +85 °C
- Storage temperature range : -40°C to +85°C
- Relative humidity: 0 to 100% condensing
- Cooling method: Natural Cooling

Mechanical

- Flammability class: 5VA
- Degree of protection: IP67
- Cabling: Double insulated solar grade cabling, at least 4 mm^2 cross-section, tested according to 2 PfG1169 (TUV Rheinland)
- Cabling Type: PV1-F or similar
- Cable length from box to connector tip: 100cm +/-5cm
- Connector: Multi-Contact MC4 or compatible
- UV resistance: f1 rating according to UL746C