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**Solar Panel Guide
Specification Data Sheet**

**Solar Cells Hellas Group
SCH660P
SCH660P-235**

Also available on the web at
EnergyPal.com/solar-cells-hellas-group-solar-panels/sch660p-235

SCH660P & SCHL660P - Multicrystalline PV Modules

1. General

Competitiveness

Being a vertically integrated photovoltaic producer, starting from polysilicon and producing wafers, cells and modules, Solar Cells Hellas is able to achieve an excellent cost structure offering high quality products at competitive prices.

Performance & Reliability

Multicrystalline technology is the most proven technology for photovoltaic solar energy conversion, offering high performance products with a reliability demonstrated by decades of field experience. Using only premium quality raw materials, the product and power guarantees offered are secured.

Quality

Solar Cells Hellas' dedication to quality is proven by the stringent quality control throughout the production

processes and the certifications received by renowned institutions world-wide. ISO 9001:2008 ensures all operations are controlled to guarantee constant and repeatable, high level, quality production, while the traceability employed leads to continuous improvement. All photovoltaic modules are produced according to EN IEC61215:2005 ed.2, EN IEC61730:2007 and CE standards.

Safety and Environment

The company is committed to personnel safety through a Health & Safety Management System (OHSAS 18001) certification, while the automation level minimizes human intervention on the produced product. Production processes and waste management are complying to the requirements set by the ISO 14001:2004 Environmental Management System and hence a "green" product is produced in an environmentally friendly manner.

2. Mechanical Characteristics

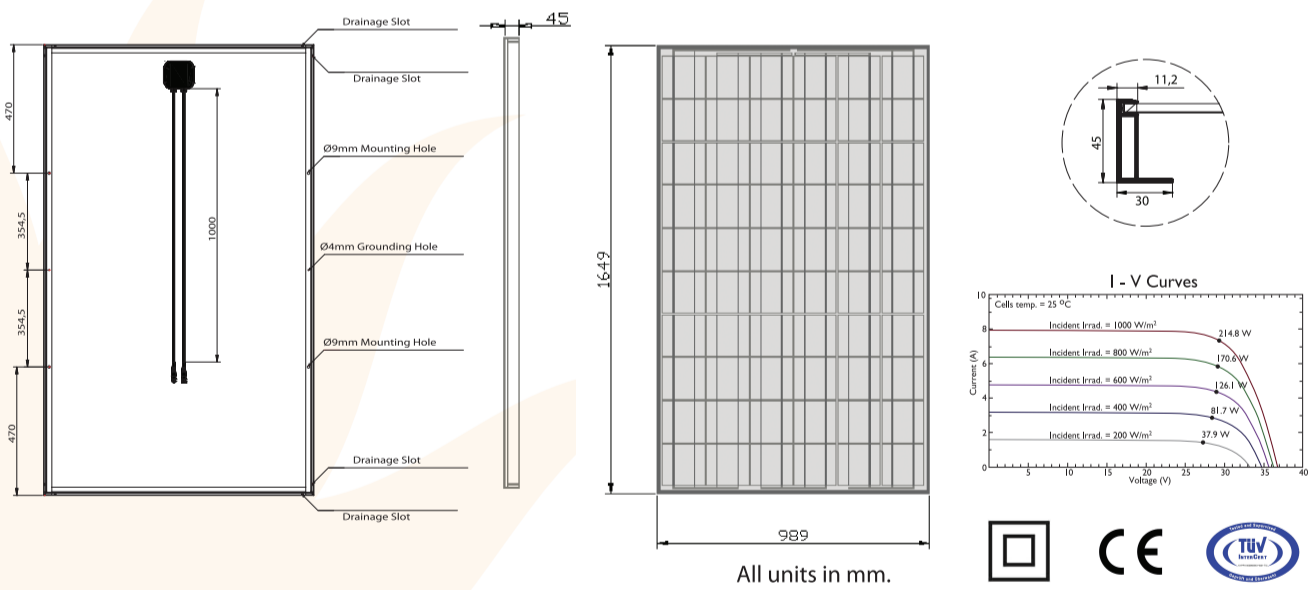
Dimensions:	1.649 x 989 x 45 mm (SCH/660P framed)
	1.642 x 981 mm (SCH/L660P frameless)
Cells:	60 poly-crystalline cells 156 x 156 mm (square)
Frame:	Anodized Al profiles
Junction Box:	3 bypass diodes, IP65, TÜV&UL approved, Protection class II
Cabling:	IP68 LC4 connectors, 1000 mm, 4 mm ² cables, TÜV&UL approved
Weight (framed):	~21kg
Weight (frameless):	~18kg
Glass:	4 mm, tempered, Class U1, SPF certified, matt/prismatic

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Production Facilities: Industrial Zone of Patras, 25200 Ag. Stefanos, Block 31A, tel: +30 2610 241958, fax: +30 2610 647129

Solar Cells Hellas S.A. reserves the right to change the specifications at any time without prior notice.

3. Module design



4. Electrical Characteristics

Values @ STC* (1000W/m ²)		200	205	210	215	220	225	230	235	240
Nominal Power, Pmax	[Wp]	200	205	210	215	220	225	230	235	240
Power Tolerance	[%]				-2 / +3					
Efficiency	[%]	12.3	12.6	12.9	13.2	13.5	13.8	14.1	14.4	14.7
Open Circuit Voltage, Voc	[V]	37.48	37.54	37.60	37.66	37.72	37.78	37.84	37.90	37.96
Short Circuit Current, Isc	[A]	7.69	7.77	7.85	7.93	8.01	8.09	8.17	8.25	8.33
Max Power Voltage, Vmpp	[V]	28.56	28.84	29.12	29.39	29.68	29.96	30.24	30.52	30.79
Max Power Current, Impp	[A]	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8
Values @ NOCT** (800W/m ²)										
Nominal Power, Pmax	[Wp]	143.9	147.4	150.9	154.4	158.1	161.7	165.4	169.1	172.8
Open Circuit Voltage, Voc	[V]	33.73	33.78	33.84	33.9	33.94	34.0	34.05	34.11	34.17
Short Circuit Current, Isc	[A]	6.15	6.21	6.28	6.34	6.4	6.47	6.53	6.6	6.66
Max Power Voltage, Vmpp	[V]	25.7	25.95	26.2	26.45	26.71	26.96	27.21	27.46	27.7
Max Power Current, Impp	[A]	5.6	5.68	5.76	5.84	5.92	6.0	6.08	6.16	6.24
Max Reverse Current	[A]					12				
Temperature Coefficients		Pmpp: -0.5 [%/K] Voc: -0.35 [%/K] Isc: +0.067 [%/K]								
Maximum System Voltage		>1000 VDC								
NOCT **		43.4 °C								
Application Class		Class A								
Certifications		IEC EN61215:2005, ed.2* and 61730:2007 part I & II *Mechanical load test up to 5400Pa								
Power Guarantee		10 years (-10%), 25 years (-20%)								
Product Guarantee		5 years								

*measured at STC (Standard Test Conditions: 1000 W/m², 25°C, 1.5AM)

**measured at NOCT (Nominal Operating Cell Temperature: 800 W/m², 20°C, 1.5AM)

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