

PowerGlaz SMT 6 SERIES STANDARD PV MODULES

Principal Benefits

- A choice of three enhanced power modules manufactured using polycrystalline cells
- Microgeneration Certification Scheme approved and suitable for FiT
- Full IEC certification
- MC junction box and connectors to enable quick and easy site connection
- Textured 'low iron' glass to maximise efficiency
- Variants include frameless modules, silver or black anodised frames, and white or black 'Tedlar' backing sheet
- Lead free materials used throughout

Polycrystalline Silicon Photovoltaic Modules

PowerGlaz SMT 6 Series photovoltaic modules utilise enhanced efficiency polycrystalline silicon cells, connected in series, providing nominal output ranging from 165W to 235W with three versions:

SMT6(60)P – 210W to 235W

SMT6(54)P – 185W to 210W

SMT6(48)P – 165W to 190W

The modules are available with silver anodised aluminium frames and white 'Tedlar' backing sheet as standard but variants include unframed modules, black 'Tedlar' backing sheet and black anodised or powder coated aluminium frames. The PowerGlaz SMT 6 Series modules are suitable for utility grid-supplemental systems (solar fields), on roof PV systems and grid independent systems.

Textured 'low iron' glass is used as the outer component and this maximises the light transmission to the cells thus providing maximum efficiency. The glass is toughened at Romag's own toughening plant drawing on our extensive glass processing experience enabling us to take full product quality and logistical control. The polycrystalline cells, having been connected in series, are encapsulated in EVA and bonded to the glass and Tedlar rear backing sheet which completes the laminate and provides total weather protection. Lead free components are used throughout the manufacturing process.

MCS (Microgeneration Certification Scheme) Certified

Certification No. MCS PV0008

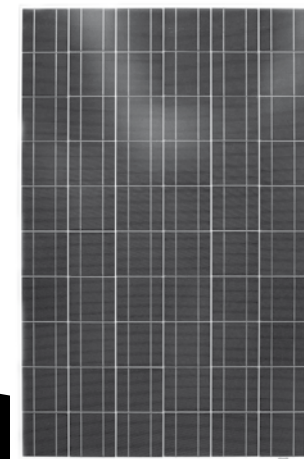
In accordance with the requirements of the UK 'feed in tariff' (FiT) scheme, PowerGlaz SMT 6 Series modules have full accreditation under the MCS scheme.

Limited Warranty – 80% power output for 25 years and freedom from defects for five years (Full warranty details available on request)

Approvals

IEC 61215 ed. 2 and IEC 61730

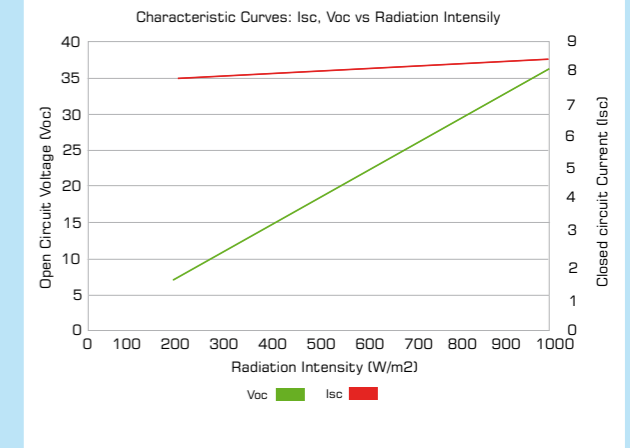
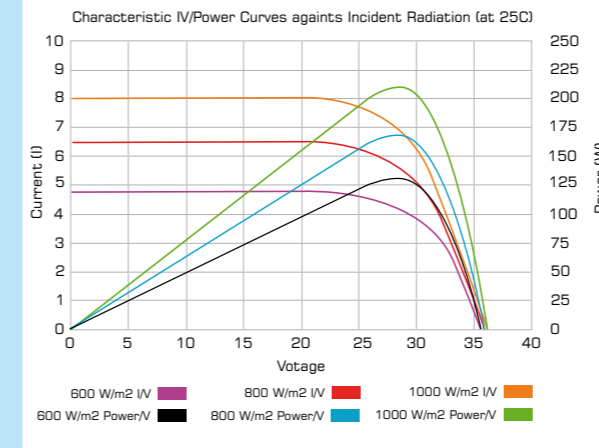
All modules have been tested by ICIM in Italy



PowerGlaz 6 Series Electrical Characteristics

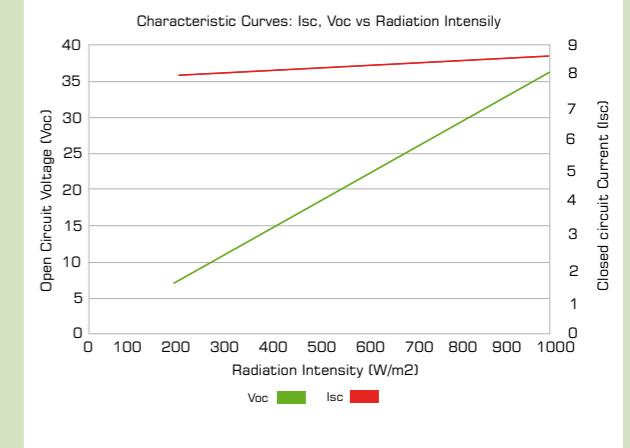
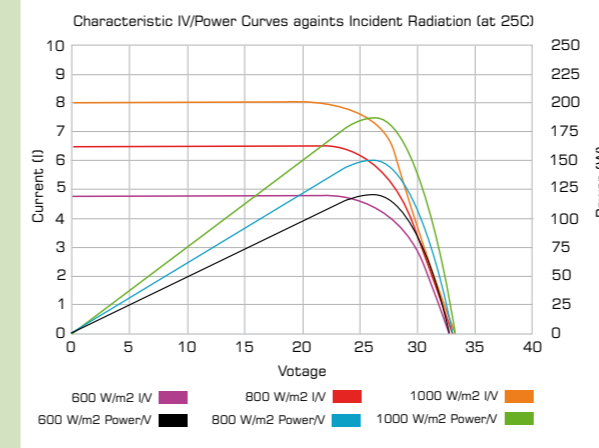
SMT 6(60)P	660235	660230	660225	660220	660215	660210
Maximum Power Output (Pmax)2	235W	230W	225W	220W	215W	210W
Voltage at Pmax (Vmp)	29.7V	29.2V	28.9V	28.7V	28.3V	28.2V
Current at Pmax (Imp)	7.9A	7.9A	7.8A	7.7A	7.6A	7.5A
Short Circuit Current (Isc)	8.4A	8.4A	8.4A	8.2A	8.2A	8.1A
Open-circuit Current (Voc)	37.8V	37.5V	37.3V	36.9V	36.5V	36.4V
Fill Factor (FF)	73.9	73.2	72.3	72.9	72.4	71.3

Temp Coefs: Isc 4.2A/K Voc -132mV/K NOCT 40.4 C **Dimensions:** 1640x994x46mm (+/-3mm) **Weight:** 21kg



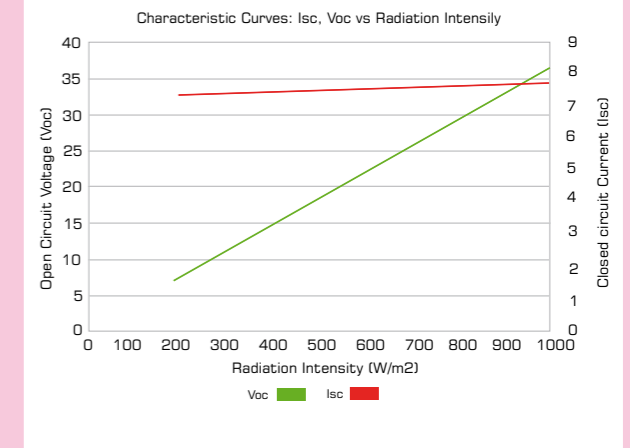
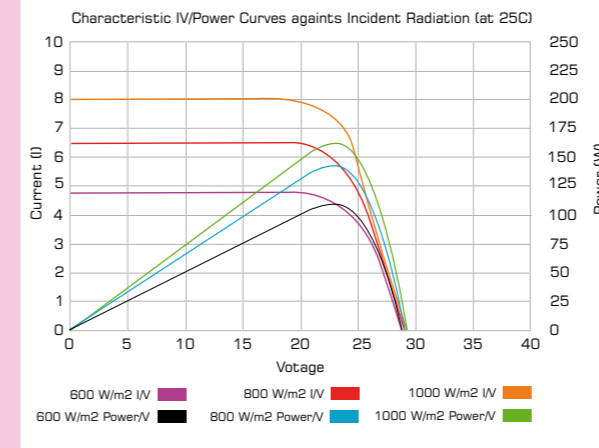
SMT 6(54)P	654210	654205	654200	654195	654190	654185
Maximum Power Output (Pmax)2	210W	205W	200W	195W	190W	185W
Voltage at Pmax (Vmp)	26.8V	26.3V	26.0V	25.8V	25.3V	24.8V
Current at Pmax (Imp)	7.9A	7.8A	7.7A	7.6A	7.5A	7.5A
Short Circuit Current (Isc)	8.4A	8.3A	8.3A	8.2A	8.1A	8.1A
Open-circuit Current (Voc)	34.5V	34.2V	33.6V	33.4V	33.1V	32.3V
Fill Factor (FF)	73.4	72.9	72.6	72.3	71.8	70.7

Temp Coefs: Isc 4.2A/K Voc -119mV/K NOCT 40.4 C **Dimensions:** 1482x994x46mm (+/-3mm) **Weight:** 19kg



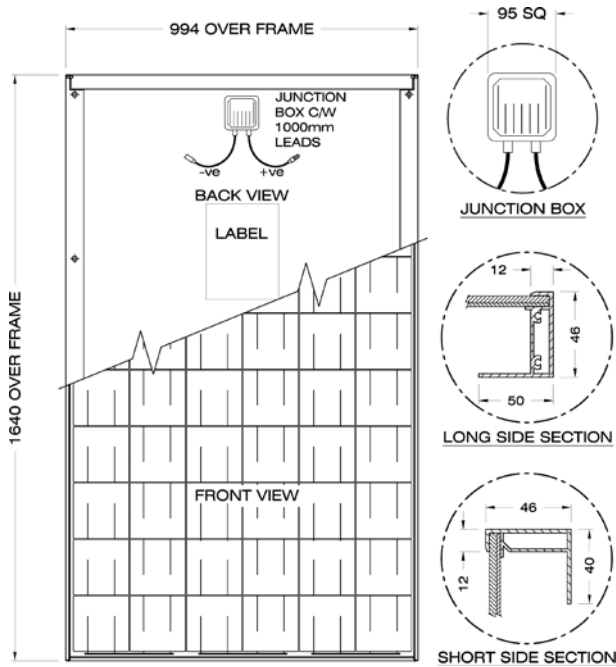
SMT 6(48)P	648190	648185	648180	648175	648170	648165
Maximum Power Output (Pmax)2	190W	185W	180W	175W	170W	165W
Voltage at Pmax (Vmp)	24.1V	23.6V	23.1V	23.0V	22.5V	22.1V
Current at Pmax (Imp)	7.9A	7.8A	7.8A	7.6A	7.6A	7.5A
Short Circuit Current (Isc)	8.4A	8.3A	8.3A	8.2A	8.1A	8.1A
Open-circuit Current (Voc)	30.6V	30.4V	29.8V	29.7V	29.5V	28.8V
Fill Factor (FF)	73.4	72.9	72.6	72.3	71.8	70.7

Temp Coefs: Isc 4.2A/K Voc -106mV/K NOCT 40.4 C **Dimensions:** 1312x994x46mm (+/-3mm) **Weight:** 17kg



Important Features

- Suitable for use in systems up to 1000V DC
- Static loading, front and back, of 5400 pascals
- Manufactured in our ISO 9000 certified factory
- Factory regularly audited by BSI, TUV and ICIM
- Repetitive cycling between -40deg and +80deg relative humidity
- Simulated impact of 25mm hail at terminal velocity
- 2200V DC frame/cell string isolation test
- Bypass diodes to counteract shading effects



APPROVED PRODUCT



BSI K11 55542
BS EN 61215: 2005 Photovoltaic modules

Certification No. MCS PV0008

Disclaimer

The information provided in this publication, including product warranty and performance specification, is subject to change without notice and should not be used as the definitive source of information for final system design. Further technical and warranty information can be found on our website (www.powerglaz.co.uk) or by contacting our technical department.