

Photovoltaic Systems



Suitable for a wide range of projects, Romag SMT6 Series PV modules come in a choice of silver or black frame and encompass Romag's extensive glass processing experience to produce high quality photovoltaic modules using the latest materials.

Available in various size options, the modules offer a flexible and cost effective PV option for both retrofit, new build and stand alone applications.

The modules utilise 156mm square high efficiency poly-crystalline cells and are certified to IEC 61215 Edition 2 and IEC 61730 and are MCS approved.

Boasting outputs from 180Wp to 285Wp and a positive tolerance of 3%, the SMT6 Series features textured low iron glass as the outer component of the laminate to reduce reflection which increases light transmission to the cells and improves efficiency. Bypass diodes are also used to minimise potential power loss caused by shading. The PV cells are connected in series and are encapsulated in EVA and bonded to the glass sheet. A final layer of Tedlar is laminated to the rear of the module to complete the weather protection.

Why chose Romag PV Modules?

- · Made in UK · Low carbon footprint
- 'In House' glass processing meaning improved service and quality control
- MCS certified and BSI Kitemark
- · Black frames, silver frames or unframed variants
- Available as 'PV Kits'

- High efficiency photovoltaic modules made of polycrystalline silicon solar cells 156mm square
- Module efficiency up to 14.7%
- Positive tolerance of 3%
- · 10 year product guarantee
- 10 year performance guarantee for 90% of original measured power output
- 25 year performance guarantee for 80% of original measured potential power output
- Bypass diodes to minimise power loss caused by shading
- Acid etched cells for especially high current yields
- Choice of silver or black anodised aluminium frames
- Output: connection cable with locking connector
- Lead free components used throughout

Maintenance

Romag SMT6 Series PV modules are passive with no moving parts to wear out and if installed at an angle of over 20° are self cleaning in most locations. We do however, recommend an inspection of the modules at least once a year and any dirt build up should be cleaned off.



Romag SMT6 (60)P **Electrical Characteristics**

Pmpp	240	235	230	225	220	Wp
Vmpp	29.85	29.47	29.18	29.03	28.70	٧
Impp	8.03	7.96	7.88	7.76	7.67	Α
Voc	37.95	37.32	37.07	36.98	36.74	٧
Isc	8.51	8.45	8.37	8.24	8.18	Α
FF	74.75	74.41	74.11	73.84	73.18	%
Efficiency	14.7	14.4	14.1	13.8	13.5	%

Temperature Characteristics

Coefficients: Power - 0.45%/°C Voltage - 0.35%/°C Current 0.05%/°C Module Weight: 21 Kg

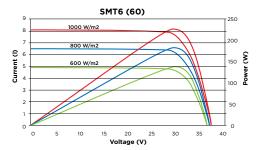
Important features

- Suitable for use in systems up to 1000V DC
- Maximum applied load to front surface of 5400 Pa
- · Manufactured in our ISO 9001: 2008 certified
- · Factory regularly audited by BSI, TUV SuD and ICIM
- · Repetitive cycling between -40°C and +80°C at 80% relative humidity
- Simulated impact of 25mm hail at terminal velocity
- 3000V DC frame/cell string isolation test
- Bypass diodes to counteract shading effects

Romag PV Kits

To make life easier for installers and clients, we also offer a range of standard PV kits. There are eight kits ranging from 1.2kW to 4.0kW which fit nicely into the highest UK 'Feed-In Tariff' for retrofit PV installations. The kits include all components required for installation including Romag SMT6 Series Modules, mounting rails, matched inverter, isolator switches, all packed on a single pallet and ready for installation.

Characteristic IV/Power Curves against Incident Radiation (at 25C)



Current Range

Romag SMT6 (60)P PV modules are suitable for the smallest domestic on roof or ground mounted systems, social housing projects, large scale on roof commercial installations, and large ground large solar fields. In fact the Romag range is ideal for any grid connected installation and our current range provides module outputs from 180Wp to 285Wp. We constantly strive to provide the best possible range of products to meet dynamic market needs and are constantly reviewing our range in line with customer demand.

Certification

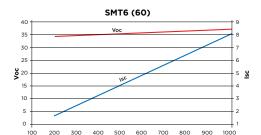
Our SMT6 Series modules Microgeneration Certification Scheme (MCS) accredited by the highly respected BSI certification body. Maintaining this certification involves consistent and on-going attention to detail during manufacture and we are regularly audited by BSI to ensure that these standards are upheld.

Quality

Romag's processes are also certified by BSI to the latest Quality Standard BSEN ISO 9001:2008

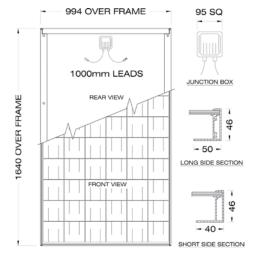
Safety

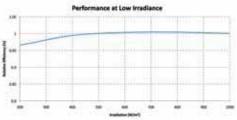
SMT6 Series modules are certified by ICIM in Italy in accordance with IEC 61215 Edition 2 and IEC 61730.



Intensity (W/m2)

Characteristic Curves: Isc, Voc vs Radiation Intensity





Also in the range: SMT6 (48)P SMT6 (54)P SMT6 (72)P

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.romag.co.uk) or by contacting our technical department.













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