



Romag

SOLAR

PowerGlaz RI[®] Roof Integrated Solar Tiles



Made in UK 

Low Carbon Footprint

'In House' Glass Processing (Better Service and Quality Control)

MCS Certified

Three Module Options



Why choose the PowerGlaz® RI system?

Solar energy offers pollution free, silent, renewable energy which does not produce any 'green-house' gases. The PowerGlaz® RI system is Romag's answer to providing cost effective solar energy for domestic houses for both the private and social housing sectors. It provides a complete roof integrated solar tile system ideally suited to new build and re-roofing applications. The system combines Romag's experience in producing high quality PV products with a market proven fixing system which is suitable for roof integration and is compatible with most slate and tile roofs or can also be used as a 'total roof' system.

The PowerGlaz® RI system package includes:

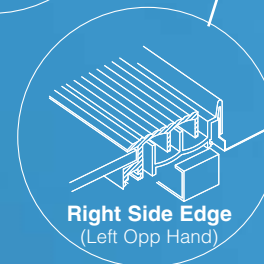
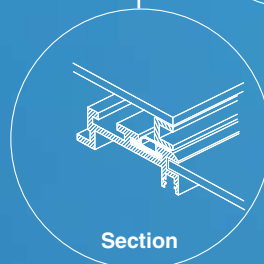
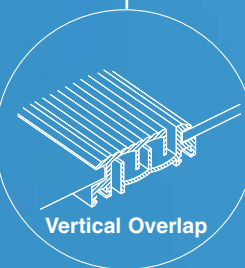
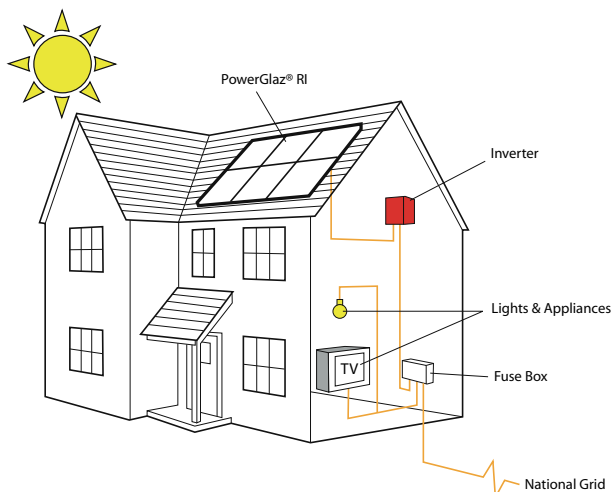
- High Efficiency PowerGlaz® RI 6 Series polycrystalline PV modules
- Market proven roof integration system factory fitted to the module for easy site assembly
- All associated fixing clips
- Side gutters and header Flashing
- Factory fitted connectors for interconnecting the solar tiles

Does PowerGlaz RI Qualify for 'Feed in Tariffs'?

Yes, the three module options offered with the PowerGlaz RI system are MCS certified and are eligible for UK 'feed in tariffs' if fitted by a suitably qualified installer who is also MCS certified. On 1st April 2010 the UK government introduced 'feed in tariffs' to help fund PV installations and increase the usage of solar PV as a viable renewable energy source. Energy generated from the PV system is subject to a generation tariff which is paid even if the consumer uses the electricity themselves; electricity fed into the grid receives an additional tariff. The actual tariff paid will depend on the size and type of PV installation.

How does it work?

1. The solar tiles generate DC power by converting daylight into electricity
2. The DC electricity is converted into AC by an inverter(s)
3. The AC electricity is fed via the fuse box to household appliances
4. Excess power is fed to the 'grid'. The Feed in Tariffs is paid for all electric generated.



Do I need planning permission?

No not necessarily - according to Statutory Instruments 2008 No. 675 of the The Town and Country Planning Order 2008 Part 40 "Installation of Domestic Microgeneration Equipment", planning permission is not required for domestic housing installations (subject to certain limitations) unless the installation is in a conservation area or World Heritage site. In both these cases PV can still be installed but conditions apply that prevent it being visible from a highway.

Can PowerGlaz® RI be installed on any house?

Yes, provided the property has a south facing aspect, no more than 90 degrees from due south, then PowerGlaz RI can be installed with most pitched slated or tiled roof finishes..

Who Installs PowerGlaz RI?

In order to qualify for 'feed in tariffs', PowerGlaz RI should be commissioned by an MCS certified installer. Romag can advise on suitable installers.

Maintenance

Romag PowerGlaz RI is a passive system with no moving parts to wear out and if installed over 20° is self cleaning in most locations. We do however, recommend an inspection of the installation at least once a year and any dirt build up should be cleaned off.

Test Standards

MCS 012

Resistance to Surface Spread of Flame and Fire Penetration

BS EN 13501-5: 2005 Designation B_{roof}(t4)

BS 476 Part 3: 2004 Designation Ext.S.AA

Wind Uplift Resistance

BS EN 14437:2004 - Achieved 4.5KPa

Water Ingress

Tested in accordance with:

Pr EN 15601 - (Type B Test) 'Wind Driven Rain'

Pr EN 15601 - (Type D Test) 'Water Deluge'



No moving parts to wear out and if installed at an angle of 20° is usually self cleaning.



Romag RI 6 Series - Electrical Characteristics

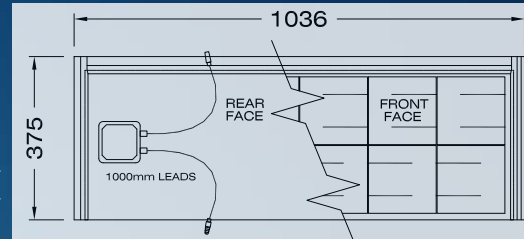
	RI 6(32)	RI 6(18)	RI 6(12)	
Pmpp	120	66	43	WP
Vmpp	15.43	8.61	5.59	V
Impp	7.73	7.62	7.57	A
Voc	19.92	11.20	7.49	V
Isc	8.27	8.14	8.12	A
FF	74.41	71.96	69.53	%
Efficiency	13.6	12.8	12.3	%

Temperature Characteristics

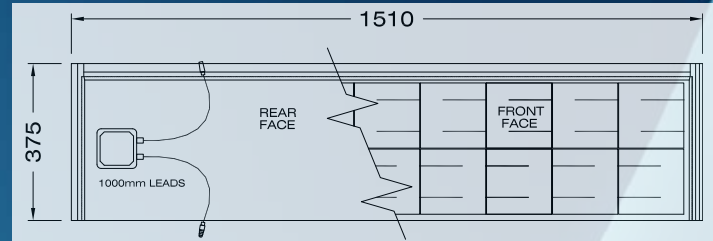
Coefficients: Power -0.45%/°C Voltage -0.35%/°C Current 0.05%/°C



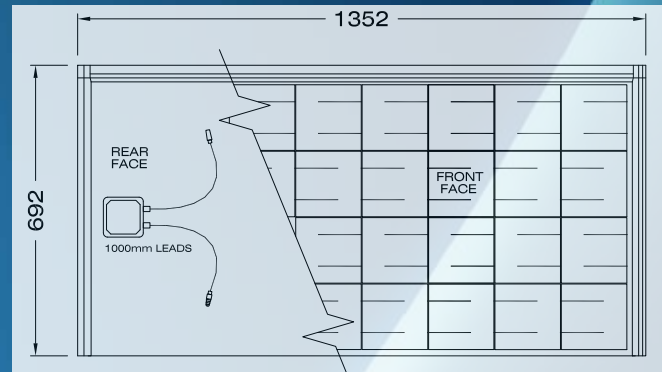
RI 6(12) 12 cell variant



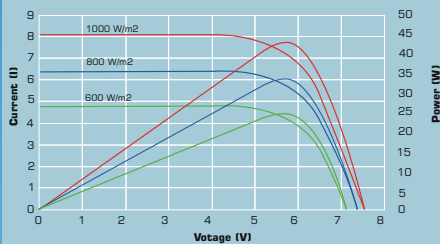
RI 6(18) 18 cell variant



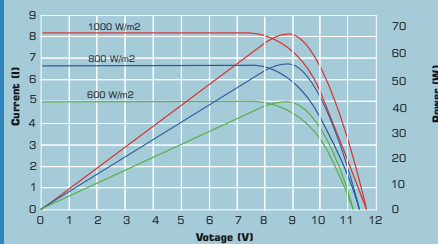
RI 6(32) 32 cell variant



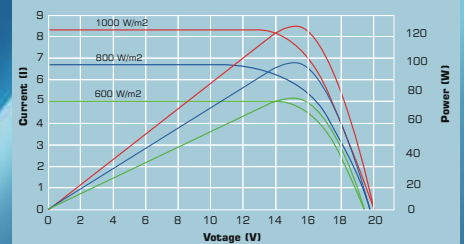
RI 6(12) Characteristic IV/Power Curves against Incident Radiation (at 25°C)



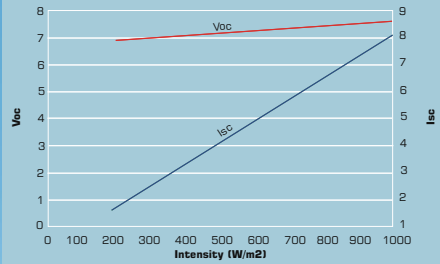
RI 6(18) Characteristic IV/Power Curves against Incident Radiation (at 25°C)



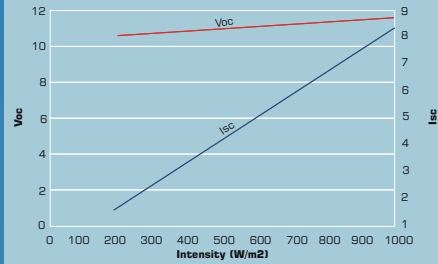
RI 6(32) Characteristic IV/Power Curves against Incident Radiation (at 25°C)



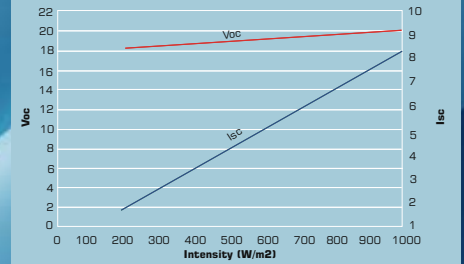
RI 6(12) Characteristic Curves: Isc, Voc vs Radiation Intensity



RI 6(18) Characteristic Curves: Isc, Voc vs Radiation Intensity



RI 6(32) Characteristic Curves: Isc, Voc vs Radiation Intensity



OTHER PowerGlaz® PRODUCTS

The PowerGlaz® range includes:

- Semi transparent glass/glass laminates for integration into curtain wall and roof glazing system
- MCS approved SMT6 series standard modules.
- Canopies
- Louvres
- PowerPark charging stations for new generation electric vehicles

FOR INFORMATION ON THESE AND OTHER PowerGlaz® PRODUCTS PLEASE VISIT

www.powerglaz.co.uk The information given in this brochure may be subject to change without warning. Please check with our technical department prior to ordering.



We acknowledge with thanks the use of photographs provided by BECO SOLAR

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