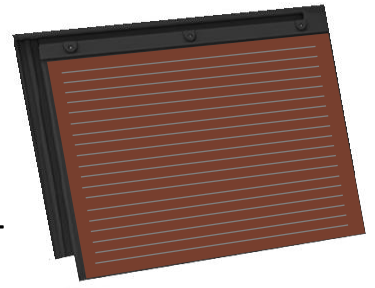


630x480mm BIPV Rooftile Module



High-efficiency Australian-Certified Building-integrated photovoltaic (BIPV) module.

Provide savings in materials and electricity costs, reduce greenhouse gases, and add aesthetic architectural features to the building

**Improve
Building
Sustainability**

**Create
Cost-saving
Opportunities**

**Mimic
Building
materials**



Low carbon
footprint



Aesthetic



Certified in Australia
as a building material



Excellent thermal
insulation



Durable and
Shatter-proof



Energy saving

Rooftile modules



630x480mm BIPV Rooftile module

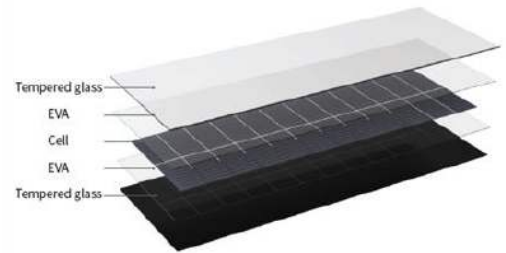
Product	AST-MS-RTR-O31
Colour	Red
Dimensions mm ²	630x479
Weight, kg	7.5
Tempered Glass Structure, mm ²	3.2x3.2
Mono-Si solar cell (half) dimensions, mm ²	192x91
Encapsulating material	EVA
Junction box standard	IP67
Cable type	450mm/4mm ²
Plug	MC4

Cell Assembly

Unit : mm



Material Structure



Colour



ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)	
Power output, P _{max} , W	31.0
Module efficiency, %	14.1%
Voltage at P _{max} , V _{max} , V	5.58
Current at P _{max} , I _{max} , A	5.56
Open-circuit voltage, V _{oc} , V	6.71
Short-circuit current, I _{sc} , A	5.93
spectrum	

THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	45±2
Temperature coefficient of P _{max}	γ	%/°C	-0.36
Temperature coefficient of V _{oc}	β _{Voc}	%/°C	0.30
Temperature coefficient of I _{sc}	α _{Isc}	%/°C	0.05

OPERATING CONDITIONS

Max.system voltage	1500V _{DC}
Max.series fuse rating	20A
Operating temperature range	(-40°C- 85°C)
Max.static load,front(e.g.,snow)	5400Pa
Max.static load,back(e.g.,wind)	2400Pa
Operating humidity	0-80%
Max. hailstone (diameter/velocity)	25mm / 23m/s

QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, 3C

• Due to continuous innovation, research and product improvement, the specifications in this product information sheet are subject to change without prior notice. The specifications may deviate slightly and are not guaranteed.

• The data do not refer to a single module and they are not part of the offer, they only serve for comparison with different module types.

Warranty:

- 10 years materials and workmanship.
- 25 years power output guarantee for:
 - 90% of nominal output during 1st 10 years &
 - End-of-life modules will be collected &

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