



450W

MAXIMUM MODULE EFFICIENCY

23.5%

POSITIVE POWER TOLERANCE

0 TO +5 W



IDEAL FOR:



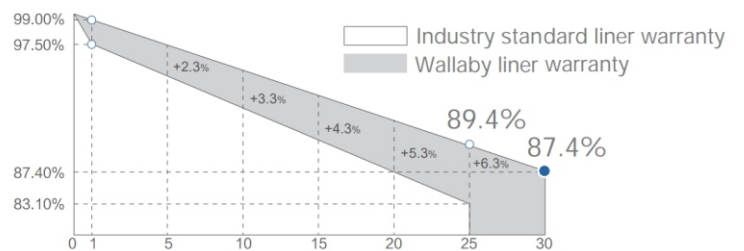
Commerical & Industrial Projects

POWER YOUR LIFE

Outstanding Bifaciality | Strong Lightweight Construction | Built for the Australian Environment

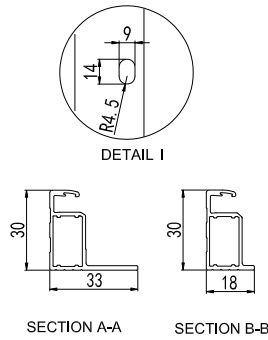
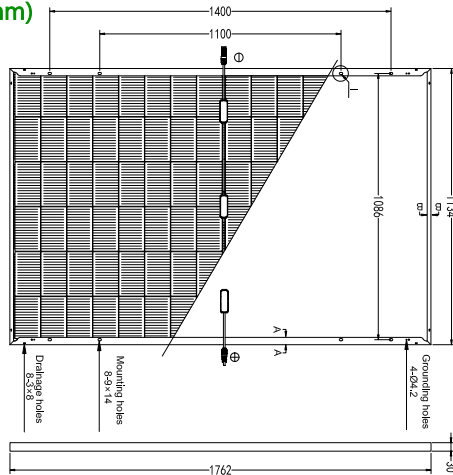
QUALIFICATIONS & CERTIFICATES

IEC 61730,
IEC 61215,
CE,

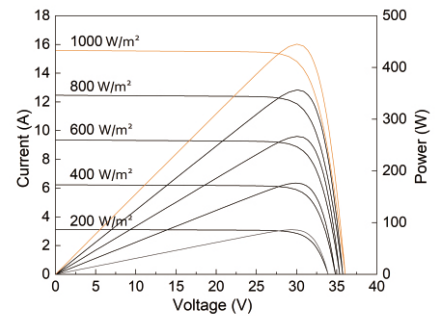


1.00% the 1st year power degradation
0.04% annual power degradation

BACK VIEW (units:mm)



I-V/P-V CURVES



Warning Read the Installation and User Manual in its entirety before handling, installing and operating Wallaby Solar modules

Electrical Parameters at Standard Test Conditions(STC*)

| Module type | WA-450 CF48 i/2 | WA-455 CF48 i/2 | WA-460 CF48 i/2 | WA-465 CF48 i/2 | WA-470 CF48 i/2 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|
| Power output-Pmax (W) | 450 | 455 | 460 | 465 | 470 |
| Power output tolerances-ΔPmax (W) with tolerance ±3% (W) | 0/+5W | 0/+5W | 0/+5W | 0/+5W | 0/+5W |
| Module efficiency-ηm (%) | 22.5 | 22.8 | 23.0 | 23.3 | 23.5 |
| Voltage at Pmax - Vmpp (V) | 30.08 | 30.29 | 30.48 | 30.67 | 30.86 |
| Current at Pmax-Impp (A) | 14.96 | 15.02 | 15.09 | 15.16 | 15.23 |
| Open-circuit voltage-Voc (V) with tolerance ±5% (V) | 35.21 | 35.45 | 35.68 | 35.91 | 36.14 |
| Short-circuit current-Isc (A) with tolerance ±5% (A) | 16.02 | 16.08 | 16.14 | 16.20 | 16.26 |

*STC: 1000 W-mirradiance, 25°C cell temperature, AM 1.5.-2

Bifacial Output-Rearside Power Gain (BSI)

| | | | | | |
|-----------------------------|--------|--------|--------|--------|--------|
| Short Circuit Current (Isc) | 19.74 | 19.81 | 19.88 | 19.96 | 20.03 |
| 5%Double sided gain (Pmax) | 473 | 478 | 483 | 488 | 494 |
| 5%Double sided gain (%) | 23.65% | 23.91% | 24.17% | 24.44% | 24.70% |
| 15%Double sided gain (Pmax) | 518 | 523 | 529 | 535 | 541 |
| 15%Double sided gain (%) | 25.90% | 26.19% | 26.48% | 26.76% | 27.05% |
| 25%Double sided gain (Pmax) | 563 | 569 | 575 | 581 | 588 |
| 25%Double sided gain (%) | 28.15% | 28.46% | 28.78% | 29.09% | 29.40% |

Bifacial Electrical Parameters at Standard Test Conditions(BNPI*)

| Module type | WA-450 CF48 i/2 | WA-455 CF48 i/2 | WA-460 CF48 i/2 | WA-465 CF48 i/2 | WA-470 CF48 i/2 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|
| Power output-Pmax (W) | 498.60 | 504.14 | 509.68 | 515.22 | 520.76 |
| Voltage at Pmax - Vmpp (V) | 30.19 | 30.40 | 30.59 | 30.78 | 30.97 |
| Current at Pmax-Impp (A) | 16.52 | 16.58 | 16.66 | 16.74 | 16.81 |
| Open-circuit voltage-Voc (V) with tolerance ±5% (V) | 35.34 | 35.58 | 35.81 | 36.04 | 36.27 |
| Short-circuit current-Isc (A) with tolerance ±5% (A) | 17.69 | 17.75 | 17.82 | 17.88 | 17.95 |
| Bifaciality coefficient is φVoc/Tolerance ±5% | 99% | 99% | 99% | 99% | 99% |
| Bifaciality coefficient is φIsc/Tolerance ±10% | 80% | 80% | 80% | 80% | 80% |
| Bifaciality coefficient is φPmax/Tolerance ±10% | 80% | 80% | 80% | 80% | 80% |

*1000W-m² on the front side and 135 W-m² on the back side, 25°C cell temperature, AM 1.5.

Thermal Characteristics

| | |
|--|-------|
| Nominal operating cell temperature -NOCT(°C) | 42±2 |
| Temperature coefficient of Pmax -γ(%/°C) | -0.29 |
| Temperature coefficient of Voc -β(%/°C) | -0.24 |
| Temperature coefficient of Isc -α(%/°C) | 0.042 |

Packaging Specifications

| | |
|--------------------------------------|-----------------------------|
| Number of modules per pallet | 36 |
| Number of pallets per 40' container | 26 |
| Packaging box dimensions (L / W / H) | 1780 mm / 1110 mm / 1245 mm |
| Box weight | 793 kg |

Construction Materials

| | | | |
|----------------------------|--|----------------------------------|--|
| Cell (material / quantity) | n-type monocrystalline silicon/ 6 x 16 | Junction box (type) | 3 bypass diodes |
| Glass (thickness) | 2.0 mm / 2.0 mm | Junction box (protection degree) | ≥IP68 Rated |
| Frame (material) | anodized aluminum alloy | Connector Type | PV-KST4-EVO2/xy_UR, PV-KBT4-EVO2/xy_UR |
| Protection Class | Class II | Output Cables | 4.0 mm ² , 250mm (+) / 350mm (-) or Customized Length |
| IEC Fire Type | Class A | | |

- 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 to different module types.
- PV module 98 th percentile operating temperature:70 C

Operating Conditions

| | |
|--|------------------------------|
| Max. system voltage | 1500 V _{dc} |
| Max. series fuse rating* | 30 A |
| Operating temperature range | -40°C ~ +70°C |
| Max. static load, front (e.g., snow) | +5400 Pa |
| Max. static load, back (e.g., wind) | -2400 Pa |
| Max. hailstone impact (diameter /velocity) | 25 mm / 23 m·s ⁻¹ |

*Do not connect fuse in combiner box with two or more strings in parallel connection.

General Characteristics

| | |
|------------------------|---------------------------|
| Dimensions (L / W / H) | 1762 mm / 1134 mm / 30 mm |
| Weight | 21.0 kg |



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