

MEP665-P132-GG

MonoPERC-132cell-G12 Dual Glass

0~+5W

Positive Power Tolerance

21.4%

Maximum Efficiency

⚡ 640-665W

High Conversion Efficiency

High solar panel efficiency to guarantee high power output

Better Weak Light Performance

Higher power output even under low-light environment like on cloudy or foggy days

More Weather Resistance

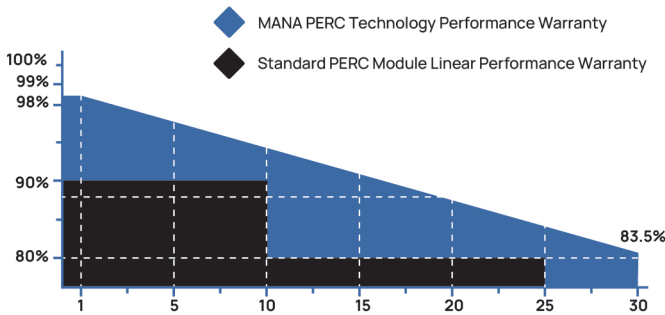
Resistant to harsh environment such as salt, ammonia, sand, high temperature and high humidity area

Lower LCOE

Up to 25% more power generation in bifacial type (depending on Albedo)

Lower Temperature Coefficient

Better performance of the solar panel in higher temperature environment or hot days



Mana Energy's Certificates

TUV Certificate IEC 61215: 2021
 TUV Certificate IEC 61730: 2016
 TUV Certificate IEC 61730: 2023
 CE Certification (EN 61730:2018)
 UKCA Certification (EN 61730:2018)
 UKCA Certification (EN 61730:2018)
 CEBEC Certification (IEC 61215: 2021 / IEC 61730: 2023)
 ISO 9001:2015: Quality management system
 ISO 14001:2015: Environmental management system
 ISO 45001:2018: Occupational health and safety management system

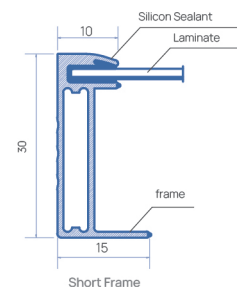
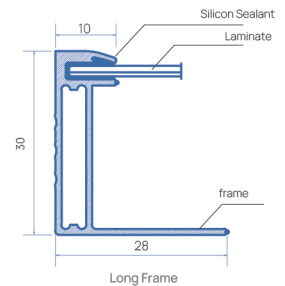
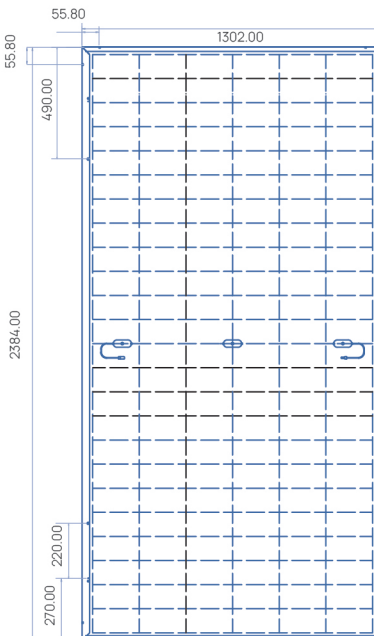
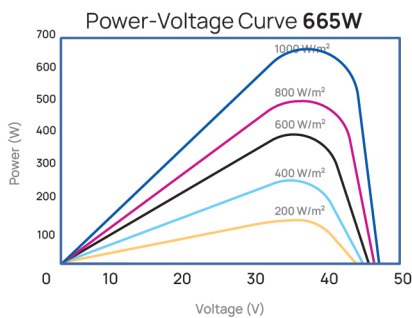
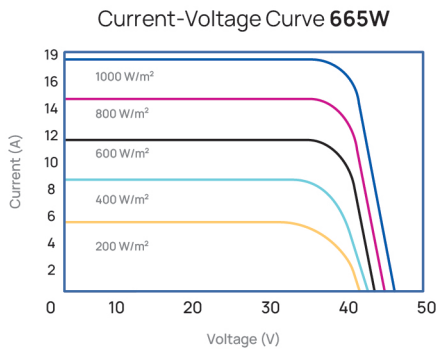


30 YEARS

Performance Warranty

12 YEARS

Product Warranty



Caution

To operate, install and manage Mana Energy Modules, read the installation manual and use carefully.

Observation

This datasheet is subject to change without notice due to continuous improvement of our products. You can find all records of the updates on our website www.manaenergypak.com or by contacting one of our sales staff. Allrights reserved @Mana Energy.



MEP665-P132-GG

| Electrical Specificatuin (STC) - Front Side | | | STC: AM1.5 1000W/m ² 25°C [Test Uncertainty: ±3%] | | | | | |
|---|-----|-----|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Model | | | MEP665-P132-GG 640 | MEP665-P132-GG 645 | MEP665-P132-GG 650 | MEP665-P132-GG 655 | MEP665-P132-GG 660 | MEP665-P132-GG 665 |
| Max Power | Pmp | [W] | 640 | 645 | 650 | 655 | 660 | 665 |
| Max Power Voltage | Vmp | [V] | 37.57 | 37.83 | 38.09 | 38.16 | 38.35 | 38.55 |
| Max Power Current | Imp | [A] | 17.05 | 17.06 | 17.07 | 17.17 | 17.21 | 17.25 |
| Open Circuit Voltage | Voc | [V] | 44.49 | 44.69 | 44.89 | 45.09 | 45.29 | 45.49 |
| Short Circuit Current | Isc | [A] | 18.20 | 18.23 | 18.27 | 18.31 | 18.36 | 18.41 |
| Efficiency | | [%] | 20.6 | 20.8 | 20.9 | 21.1 | 21.2 | 21.4 |

| Electrical Specificatuin (NMOT) - Front Side | | | NMOT: 800W/m ² 20°C 1m/s [Test Uncertainty: ±3%] | | | | | |
|--|-----|-----|---|-------|-------|-------|-------|-------|
| Max Power | Pmp | [W] | 480 | 483 | 487 | 491 | 496 | 499 |
| Max Power Voltage | Vmp | [V] | 35.20 | 35.31 | 35.55 | 35.72 | 35.97 | 36.11 |
| Max Power Current | Imp | [A] | 13.64 | 13.69 | 13.71 | 13.75 | 13.79 | 13.82 |
| Open Circuit Voltage | Voc | [V] | 42.19 | 42.28 | 42.45 | 42.71 | 42.93 | 43.09 |
| Short Circuit Current | Isc | [A] | 14.70 | 14.74 | 14.78 | 14.83 | 14.87 | 14.91 |

| Bifaciality Power Generation Gain (Regarding 650W as an example) | | | | | | | | |
|--|-----|-----|-------|-------|-------|-------|-------|-------|
| Power Gain | | [%] | 0 | 5 | 10 | 15 | 20 | 25 |
| Max Power | Pmp | [W] | 650 | 683 | 715 | 748 | 780 | 813 |
| Max Power Voltage | Vmp | [V] | 38.09 | 38.12 | 38.15 | 38.18 | 38.21 | 38.24 |
| Max Power Current | Imp | [A] | 17.07 | 17.90 | 18.74 | 19.58 | 20.41 | 21.25 |
| Open Circuit Voltage | Voc | [V] | 44.89 | 44.93 | 44.97 | 45.01 | 45.05 | 45.09 |
| Short Circuit Current | Isc | [A] | 18.27 | 19.12 | 20.05 | 20.98 | 21.80 | 22.74 |

| Mechanical Data | |
|------------------|-------------------------------------|
| Solar Cell | P-Type 210mm x 105mm - [12 x 11] |
| Module Dimension | 2384x1302x30 mm |
| Weight | 38.2 kg |
| Front Cover | Glass - 2mm Semi Tempered AR coated |
| Back Cover | Glass - 2mm Semi Tempered |
| Frame | Silver - Anodized Aluminium Alloy |
| Junction Box | IP68 Rated - 3 Bypass Diodes |
| Cable | 4.0m ² - 300mm |

| Temperature Ratings | | | | |
|--------------------------------------|------|---|--------|-------|
| Temperature Coefficient | Isc | α | [%/°C] | +0.05 |
| Temperature Coefficient | Voc | β | [%/°C] | -0.27 |
| Temperature Coefficient | Pmax | γ | [%/°C] | -0.35 |
| Nominal Module Operating Temperature | NMOT | | [°C] | 44±2 |

| Operating Properties | |
|--------------------------------------|---------------|
| Max System Voltage | 1500V |
| Max System Fuse Rating | 30 A |
| Operational Temperature | -40 to +85 °C |
| BifacialityTolerance | ±5% |
| Bifaciality=Pmaxrear/Pmaxfront (STC) | 70% |

| Packaging Information | |
|------------------------------|------|
| # Module Per Pallet | 35 |
| # Pallet per 45'HC Container | 12 |
| # Pallet per 40'HC Container | 10 |
| # PCs per Container 40'HC | 350 |
| Pallet Weight (kg) | 1335 |