

# MEP720-T132-GG

## N-Type TOPCon-132cell-G12 Dual Glass

**0~+5W**

Positive Power Tolerance

**23.2 %**

Maximum Efficiency

**695-720W**

### 10-30% Additional Power Generation

30 years lifespan brings 10-30% additional power generation

### Zero LID

N-type solar cell has no LID naturally which can increase power generation

### Lower LCOE

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

### Better Weak Light Performance

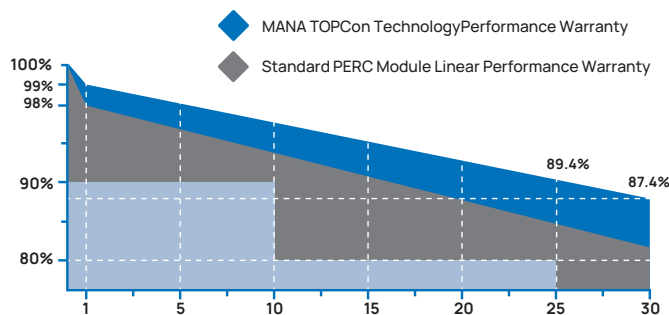
Higher power output even under low-light environment like on cloudy or foggy days

### Lower Temperature Coefficient

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

### More Weather Resistance

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



### 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)  
 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



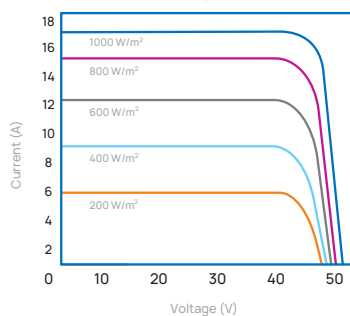
**30**  
YEARS

Performance  
Warranty

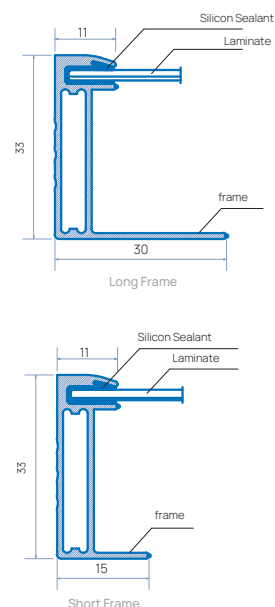
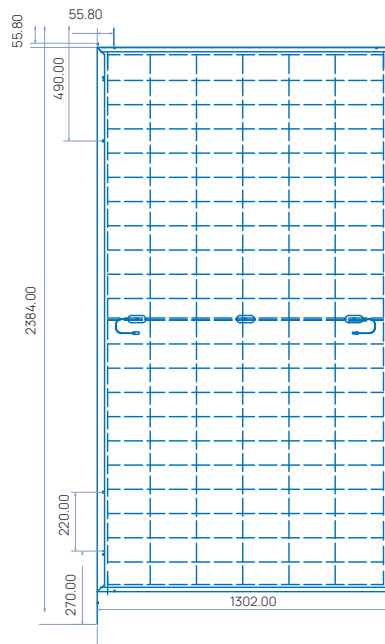
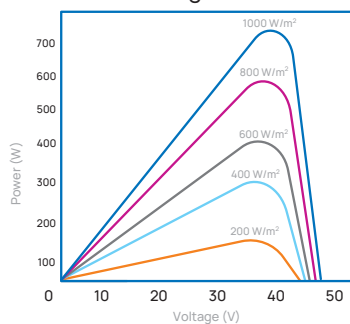
**12**  
YEARS

Product  
Warranty

Current-Voltage Curve 720W



Power-Voltage Curve 720W



### 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](http://www.manaenergypak.com) or by contacting one of our sales staff. Allrights reserved @Mana Energy.

# MEP720-T132-GG

| Electrical Specification (STC) - Front Side |     |     | STC: AM1.5 1000W/m <sup>2</sup> 25°C [Test Uncertainty: ±3%] |                     |                     |                     |                     |                     |
|---------------------------------------------|-----|-----|--------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Model                                       |     |     | MEP 720-T132-GG 695                                          | MEP 720-T132-GG 700 | MEP 720-T132-GG 705 | MEP 720-T132-GG 710 | MEP 720-T132-GG 715 | MEP 720-T132-GG 720 |
| Max Power                                   | Pmp | [W] | 695                                                          | 700                 | 705                 | 710                 | 715                 | 720                 |
| Max Power Voltage                           | Vmp | [V] | 41.30                                                        | 41.48               | 41.66               | 41.84               | 42.02               | 40.20               |
| Max Power Current                           | Imp | [A] | 16.87                                                        | 16.92               | 16.97               | 17.02               | 17.07               | 17.12               |
| Open Circuit Voltage                        | Voc | [V] | 47.63                                                        | 47.81               | 47.99               | 48.17               | 48.35               | 48.53               |
| Short Circuit Current                       | Isc | [A] | 17.73                                                        | 17.77               | 17.81               | 17.85               | 17.89               | 17.93               |
| Efficiency                                  |     | [%] | 22.4                                                         | 22.5                | 22.7                | 22.9                | 23.0                | 23.2                |

| Electrical Specification (NMOT) - Front Side |     |     | NMOT: 800W/m <sup>2</sup> 20°C Wind: 1m/s [Test Uncertainty: ±3%] |       |       |       |       |       |
|----------------------------------------------|-----|-----|-------------------------------------------------------------------|-------|-------|-------|-------|-------|
| Max Power                                    | Pmp | [W] | 525                                                               | 528   | 531   | 535   | 538   | 542   |
| Max Power Voltage                            | Vmp | [V] | 36.84                                                             | 37.00 | 37.16 | 37.32 | 37.48 | 37.64 |
| Max Power Current                            | Imp | [A] | 14.24                                                             | 14.27 | 14.30 | 14.33 | 14.36 | 14.39 |
| Open Circuit Voltage                         | Voc | [V] | 44.84                                                             | 45.00 | 45.16 | 45.32 | 45.48 | 45.64 |
| Short Circuit Current                        | Isc | [A] | 15.15                                                             | 15.18 | 15.21 | 15.24 | 15.27 | 15.30 |

| Bifaciality Power Generation Gain (Regarding 610W as an example) |     |     |       |       |       |       |       |       |
|------------------------------------------------------------------|-----|-----|-------|-------|-------|-------|-------|-------|
| Power Gain                                                       |     | [%] | 0     | 5     | 10    | 15    | 20    | 25    |
| Max Power                                                        | Pmp | [W] | 720   | 756   | 792   | 828   | 864   | 900   |
| Max Power Voltage                                                | Vmp | [V] | 42.20 | 42.24 | 42.28 | 42.32 | 42.36 | 42.40 |
| Max Power Current                                                | Imp | [A] | 17.12 | 17.90 | 18.73 | 19.57 | 20.40 | 21.23 |
| Open Circuit Voltage                                             | Voc | [V] | 48.53 | 48.57 | 48.61 | 48.65 | 48.69 | 48.73 |
| Short Circuit Current                                            | Isc | [A] | 17.93 | 18.79 | 19.65 | 20.51 | 21.37 | 22.23 |

| Mechanical Data  |                                      |
|------------------|--------------------------------------|
| Solar Cell       | N-Type 210mm × 105 mm - [12 × 11]    |
| Module Dimension | 2384×1302×33 mm                      |
| Weight           | 38.2 kg                              |
| Front Cover      | Glass - 2 mm Semi Tempered AR coated |
| Back Cover       | Glass - 2mm Semi Tempered            |
| Frame            | Silver - Anodized Aluminium Alloy    |
| Junction Box     | IP68 Rated - 3 Bypass Diodes         |
| Cable            | 4.0 mm <sup>2</sup> - 300mm          |

| Temperature Ratings                  |      |   |        |        |
|--------------------------------------|------|---|--------|--------|
| Temperature Coefficient              | Isc  | α | [%/°C] | +0.046 |
| Temperature Coefficient              | Voc  | β | [%/°C] | -0.25  |
| Temperature Coefficient              | Pmax | γ | [%/°C] | -0.30  |
| Nominal Module Operating Temperature | NMOT |   | [°C]   | 43±2   |

| Operating Properties                     |               |
|------------------------------------------|---------------|
| Max System Voltage                       | 1500V         |
| Max System Fuse Rating                   | 30 A          |
| Operational Temperature                  | -40 to +85 °C |
| Bifaciality Tolerance                    | ±5% w         |
| Bifaciality = Pmaxrear / Pmaxfront (STC) | 80%           |

| Packaging Information         |      |
|-------------------------------|------|
| # Module Per Pallet           | 35   |
| # Pallet per 45' HC Container | 20   |
| # Pallet per 40' HC Container | 10   |
| # PCs per Container 40' HC    | 350  |
| Pallet Weight (kg)            | 1335 |