

# VMGI-PRO

## 3.6-6-SP



### Technical Data

|                                       | VMGI-PRO-3-SP                                                                                                                                      | VMGI-PRO-3.6-SP | VMGI-PRO-4-SP | VMGI-PRO-5-SP | VMGI-PRO-6-SP |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|---------------|---------------|
| PV Input Data                         |                                                                                                                                                    |                 |               |               |               |
| Max. DC Power ( W )                   | 6000                                                                                                                                               | 7200            | 8000          | 10000         | 12000         |
| Max. DC Voltage ( V )                 | 600                                                                                                                                                | 600             | 600           | 600           | 600           |
| MPPT Voltage Range ( V )              | 70-550                                                                                                                                             | 70-550          | 70-550        | 70-550        | 70-550        |
| Rated Input Voltage ( V )             | 360                                                                                                                                                |                 |               |               |               |
| Start-up Voltage ( V )                | 70                                                                                                                                                 |                 |               |               |               |
| Max. Input Current ( A )              | 18.5 x 2                                                                                                                                           |                 |               |               |               |
| Max. Short Current ( A )              | 25 x 2                                                                                                                                             |                 |               |               |               |
| No. of MPP Tracker / No. of PV String | 2/2                                                                                                                                                |                 |               |               |               |
| Input Connector Type                  | MC4                                                                                                                                                |                 |               |               |               |
| AC Output Data                        |                                                                                                                                                    |                 |               |               |               |
| Max. Output Power ( VA )              | 3300                                                                                                                                               | 3960            | 4400          | 5500          | 6600          |
| Nominal Output Power ( W )            | 3000                                                                                                                                               | 3600            | 4000          | 5000          | 6000          |
| Max. Output Current ( A )             | 15                                                                                                                                                 | 17.5            | 20            | 24            | 28.7          |
| Nominal Output Voltage ( V )          | L/N/PE, 220Vac, 230Vac, 240Vac                                                                                                                     |                 |               |               |               |
| Grid Voltage Range                    | 180Vac-276Vac (According to local standard)                                                                                                        |                 |               |               |               |
| Nominal Output Frequency ( Hz )       | 50/60                                                                                                                                              |                 |               |               |               |
| Grid Frequency Range                  | 45-55Hz/54-66Hz (According to local standard)                                                                                                      |                 |               |               |               |
| Output Power Factor                   | 1 default (adjustable from 0.8 leading to 0.8 lagging)                                                                                             |                 |               |               |               |
| Output Current THD                    | <3%                                                                                                                                                |                 |               |               |               |
| Efficiency                            |                                                                                                                                                    |                 |               |               |               |
| Max. Efficiency                       | 98.20%                                                                                                                                             | 98.20%          | 98.20%        | 98.20%        | 98.20%        |
| Euro Efficiency                       | 97.80%                                                                                                                                             | 97.82%          | 97.85%        | 97.90%        | 97.92%        |
| Protection                            |                                                                                                                                                    |                 |               |               |               |
| PV Reverse Polarity Protection        | YES                                                                                                                                                |                 |               |               |               |
| PV Insulation Resistance Detection    | YES                                                                                                                                                |                 |               |               |               |
| AC Short Circuit Protection           | YES                                                                                                                                                |                 |               |               |               |
| AC Over Current Protection            | YES                                                                                                                                                |                 |               |               |               |
| AC Over Voltage Protection            | YES                                                                                                                                                |                 |               |               |               |
| Anti-Islanding Protection             | YES                                                                                                                                                |                 |               |               |               |
| Residual Current Detection            | YES                                                                                                                                                |                 |               |               |               |
| Over Temperature Protection           | YES                                                                                                                                                |                 |               |               |               |
| Integrated DC switch                  | YES                                                                                                                                                |                 |               |               |               |
| Surge Protection                      | Integrated (10kA Type II Varistor, DC&AC)                                                                                                          |                 |               |               |               |
| Smart IV Curve Scanning               | YES                                                                                                                                                |                 |               |               |               |
| Quick Arc Fault Circuit interruption  | Optional                                                                                                                                           |                 |               |               |               |
| General Data                          |                                                                                                                                                    |                 |               |               |               |
| Dimensions (W x H x D, mm)            | 360 x 358 x 142                                                                                                                                    |                 |               |               |               |
| Weight ( kg )                         | 10                                                                                                                                                 |                 |               |               |               |
| Protection Degree                     | IP66                                                                                                                                               |                 |               |               |               |
| Enclosure Material                    | Aluminum                                                                                                                                           |                 |               |               |               |
| Ambient Temperature Range ( °C )      | -25 - + 60                                                                                                                                         |                 |               |               |               |
| Humidity Range                        | 0- 100%                                                                                                                                            |                 |               |               |               |
| Topology                              | Transformerless                                                                                                                                    |                 |               |               |               |
| Communication Interface               | RS485 / WiFi / Wire Ethernet / GPRS (optional)                                                                                                     |                 |               |               |               |
| Cooling Concept                       | Convection                                                                                                                                         |                 |               |               |               |
| Night Power Consumption ( W )         | <1                                                                                                                                                 |                 |               |               |               |
| Max. Operation Altitude ( m )         | 4000                                                                                                                                               |                 |               |               |               |
| Certifications and Standards          |                                                                                                                                                    |                 |               |               |               |
| EMC Standard                          | EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, EN IEC 61000-3-2, EN 61000-3-3, EN IEC 61000-3-11, EN 61000-3-12, EN 62920 |                 |               |               |               |
| Safety Standard                       | IEC/EN 62109-1, IEC/EN 62109-2, IEC 61683                                                                                                          |                 |               |               |               |
| Grid-connection                       | IEC 61727, IEC 62116, VDE-AR-N 4105, IEC 63027                                                                                                     |                 |               |               |               |