



Powering Solar Excellence

## INTRODUCING GRID TIE INVERTER WITH ADVANCED H6 TECHNOLOGY

**10**  
**YEAR**  
**WARRANTY**  
★★★★★



### LEADING FEATURES



IP65 Rating



Max Input Current 18A to 36A



50% More DC Overloading



Anti Islanding Over-Voltage Protection



Pan-India Service Centres

## SINGLE PHASE SOLAR GRID TIE INVERTER

Technology Data

Powering Solar Excellence

| Model No                                 | V01G03K0 | V01G05K0 | V01G03K3 | V01G05K2 |
|------------------------------------------|----------|----------|----------|----------|
| <b>DC Side / Input Parameters</b>        |          |          |          |          |
| Max DC power (W)                         | 4500W    | 7500W    | 5400W    | 7500W    |
| Max DC voltage (Vdc)                     | 550      | 550      | 550      | 550      |
| Min System start/Shut down voltage (Vdc) | 75/100   | 75/100   | 75/100   | 75/100   |
| MPPT voltage range(Vdc)                  | 100~500  | 100~500  | 100~500  | 100~500  |
| Max. input current (A)                   | 18A      | 22A      | 18A      | 22A      |
| Max.input short circuit per MPPT         | 25A      | 28A      | 25A      | 28A      |
| Number of MPP trackers                   | 1        |          |          |          |
| Strings per MPP tracker                  | 1        |          |          |          |

|                                    |                                                 |       |       |       |
|------------------------------------|-------------------------------------------------|-------|-------|-------|
| <b>AC Side / Output Parameters</b> |                                                 |       |       |       |
| Nominal output power (W)           | 3000                                            | 5000  | 3300  | 5000  |
| Maximum output power (W)           | 3300                                            | 5500  | 3960  | 5500  |
| Nominal output voltage/range (V)   | 183 V - 253 V                                   |       |       |       |
| AC grid frequency/range (Hz)       | 47.5 Hz to 50.5 Hz                              |       |       |       |
| Maximum output current (A)         | 16                                              | 23    | 16    | 23    |
| AC connection (with PE)            | Single phase                                    |       |       |       |
| Current distortion(THDi)           | <1.5%                                           | <2.5% | <2.5% | <2.5% |
| Power factor                       | ~1%(Adjustable from 0.8 leading to 0.8 lagging) |       |       |       |

|                               |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|
| <b>Efficiency</b>             |       |       |       |       |
| Maximum conversion efficiency | 97.5% | 97.5% | 97.8% | 97.5% |
| European efficiency           | 97.2% | 97.2% | 97.3% | 97.2% |
| MPPT efficiency               | 99.9% | 99.9% | 99.9% | 99.9% |

|                                           |     |  |  |  |
|-------------------------------------------|-----|--|--|--|
| <b>Safety and Protection</b>              |     |  |  |  |
| DC reverse-polarity protection            | Yes |  |  |  |
| Anti-islanding / Overvoltage protection   | Yes |  |  |  |
| Short circuit protection                  | Yes |  |  |  |
| Leakage current protection                | Yes |  |  |  |
| Grid monitoring / Ground fault monitoring | Yes |  |  |  |
| DC/AC side SPD(thermally protected)       | Yes |  |  |  |

|                             |                                     |                 |                   |                 |
|-----------------------------|-------------------------------------|-----------------|-------------------|-----------------|
| <b>General Parameters</b>   |                                     |                 |                   |                 |
| Dimension (L/W/H)(mm)       | 300x294x104                         | 370x318.5x105.5 | 300x294x104       | 370x318.5x105.5 |
| Weight (kg)                 | 5                                   | 7               | 5                 | 7               |
| Embedded DC Switch          | Optional                            |                 |                   |                 |
| Night power consumption (W) | < 0.2                               |                 |                   |                 |
| Isolation type              | Transformerless                     |                 |                   |                 |
| Protection degree           | IP65 according to IEC60529          |                 |                   |                 |
| Operation temperature (°C)  | -25 ~ +60                           |                 |                   |                 |
| Cooling concept             | Smart Cooling                       |                 |                   |                 |
| Operating Altitude (m)      | <2000m without power derating       |                 |                   |                 |
| Acoustic noise level (dB)   | < 25                                |                 |                   |                 |
| Display                     | LCD                                 |                 |                   |                 |
| Communication Interface     | Standard WIFI/GPRS/RS485 (optional) |                 |                   |                 |
| Warranty                    | Standard 8 years; 10 years optional |                 | Standard 10 years |                 |

|                                                           |  |  |  |  |
|-----------------------------------------------------------|--|--|--|--|
| <b>Certificates and Approvals</b>                         |  |  |  |  |
| IS 16169 : 2019,IS 16221 (Part 2) : 2015, IS 17980 : 2022 |  |  |  |  |

## THREE PHASE SOLAR GRID TIE INVERTER

Technology Data

Powering Solar Excellence

| Model No                           | V03G06K0       | V03G08K0 | V03G10K0 | V03G06K2 | V03G08K2 | V03G10K2 |
|------------------------------------|----------------|----------|----------|----------|----------|----------|
| <b>Input ( DC )</b>                |                |          |          |          |          |          |
|                                    | 7500W          | 9500W    | 11500W   | 7500W    | 9500W    | 11500W   |
| Max DC voltage (Vdc)               | 1000Vd.c.      |          |          |          |          |          |
| Min working voltage (Vdc)          | 160Vd.c.       |          |          |          |          |          |
| MPPT voltage range (Vdc)           | 160...850Vd.c. |          |          |          |          |          |
| Max input current / per string (A) | 18A/18A        |          |          |          |          |          |
| Max.input short circuit per MPPT   | 25A/25A        |          |          |          |          |          |
| Number of MPP trackers             | 2              |          |          |          |          |          |
| Strings per MPP tracker            | 1              |          |          |          |          |          |

|                            |                                       |      |       |      |      |       |
|----------------------------|---------------------------------------|------|-------|------|------|-------|
| <b>Output (AC)</b>         |                                       |      |       |      |      |       |
| AC nominal power (W)       | 6000                                  | 8000 | 10000 | 6000 | 8000 | 10000 |
| Max AC apparent power (VA) | 7000                                  | 8800 | 11000 | 7000 | 8800 | 11000 |
| Max output current (A)     | 12                                    | 15   | 17    | 12   | 15   | 17    |
| Nominal AC output          | 50/60 Hz; 400 Vac                     |      |       |      |      |       |
| AC output range            | 183V - 253 V (L-N) 47.5 Hz to 50.5 Hz |      |       |      |      |       |
| Power factor               | 0.8leading...0.8laging                |      |       |      |      |       |
| Harmonics                  | <5%                                   |      |       |      |      |       |
| Grid type                  | 3 W/N/PE                              |      |       |      |      |       |

|                   |       |       |       |       |       |       |
|-------------------|-------|-------|-------|-------|-------|-------|
| <b>Efficiency</b> |       |       |       |       |       |       |
| Max efficiency    | 98.2% | 98.3% | 98.4% | 98.2% | 98.3% | 98.4% |
| Euro efficiency   | 97.7% | 97.8% | 97.9% | 97.7% | 97.8% | 97.9% |
| MPPT efficiency   | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% |

|                                |     |  |  |  |  |  |
|--------------------------------|-----|--|--|--|--|--|
| <b>Safety and Protection</b>   |     |  |  |  |  |  |
| DC reverse-polarity protection | Yes |  |  |  |  |  |
| DC breaker                     | Yes |  |  |  |  |  |
| DC/AC SPD                      | Yes |  |  |  |  |  |
| Leakage current protection     | Yes |  |  |  |  |  |
| Insulation Impedance Detection | Yes |  |  |  |  |  |
| Residual Current protection    | Yes |  |  |  |  |  |

|                                |                                     |  |  |                   |  |  |
|--------------------------------|-------------------------------------|--|--|-------------------|--|--|
| <b>General Parameters</b>      |                                     |  |  |                   |  |  |
| Dimension (L/W/H)(mm)          | 480x476x157                         |  |  |                   |  |  |
| Weight (kg)                    | 16                                  |  |  |                   |  |  |
| Operating temperature range °C | -25 ~ +60                           |  |  |                   |  |  |
| Degree of protection           | IP65                                |  |  |                   |  |  |
| Cooling concept                | Smart Cooling                       |  |  |                   |  |  |
| Topology                       | Transformerless                     |  |  |                   |  |  |
| Display                        | LCD                                 |  |  |                   |  |  |
| Humidity                       | 0-95%, no condensation              |  |  |                   |  |  |
| Communication                  |                                     |  |  |                   |  |  |
| Warranty                       | Standard 8 years; 10 years optional |  |  | Standard 10 years |  |  |

|                                                           |  |  |  |  |  |  |
|-----------------------------------------------------------|--|--|--|--|--|--|
| <b>Certificates and Approvals</b>                         |  |  |  |  |  |  |
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## THREE PHASE SOLAR GRID TIE INVERTER

Powering Solar Excellence

Technology Data

| Model No                           | V03G012K                              | V03G015K | V03G020K       | V03G025K |
|------------------------------------|---------------------------------------|----------|----------------|----------|
| Input ( DC)                        |                                       |          |                |          |
|                                    | 18000W                                | 22500W   | 30000W         | 30000W   |
| Max DC voltage (Vdc)               | 1000Vd.c.                             |          |                |          |
| Min working voltage (Vdc)          | 160Vd.c.                              |          | 250Vd.c.       |          |
| MPPT voltage range (Vdc)           | 160...850Vd.c.                        |          | 250...850Vd.c. |          |
| Max input current / per string (A) | 18A/18A                               |          | 26A/26A        | 36A/26A  |
| Max.input short circuit per MPPT   | 25A/25A                               |          | 34A/34A        | 46A/34A  |
| Number of MPP trackers             | 2                                     |          |                |          |
| Strings per MPP tracker            | 1                                     |          | 2              |          |
| Output (AC)                        |                                       |          |                |          |
| AC nominal power (W)               | 12000                                 | 15000    | 20000          | 25000    |
| Max AC apparent power (VA)         | 13200                                 | 16500    | 22000          | 27500    |
| Max output current (A)             | 20                                    | 23       | 30             | 36       |
| Nominal AC output                  | 50/60 Hz; 400 Vac                     |          |                |          |
| AC output range                    | 183V - 253 V (L-N) 47.5 Hz to 50.5 Hz |          |                |          |
| Power factor                       | 0.8leading...0.8laging                |          |                |          |
| Harmonics                          | < 5%                                  |          | < 1.5%         |          |
| Grid type                          | 3 W/N/PE                              |          |                |          |
| Efficiency                         |                                       |          |                |          |
| Max efficiency                     | 98.4%                                 | 98.4%    | 98.5%          | 98.5%    |
| Euro efficiency                    | 97.9%                                 | 98.0%    | 98.1%          | 98.2%    |
| MPPT efficiency                    | 99.9%                                 | 99.9%    | 99.9%          | 99.9%    |
| Safety and Protection              |                                       |          |                |          |
| DC reverse-polarity protection     | Yes                                   |          |                |          |
| DC breaker                         | Yes                                   |          |                |          |
| DC/AC SPD                          | Yes                                   |          |                |          |
| Leakage current protection         | Yes                                   |          |                |          |
| Insulation Impedance Detection     | Yes                                   |          |                |          |
| Residual Current protection        | Yes                                   |          |                |          |
| General Parameters                 |                                       |          |                |          |
| Dimension (L/W/H)(mm)              | 480x476x157                           |          | 520x510x160    |          |
| Weight (kg)                        | 16                                    |          | 23             | 25       |
| Operating temperature range °C     | -25 ~ +60                             |          |                |          |
| Degree of protection               | IP65                                  |          |                |          |
| Cooling concept                    | Smart Cooling                         |          |                |          |
| Topology                           | Transformerless                       |          |                |          |
| Display                            | LCD                                   |          |                |          |
| Humidity                           | 0-95%, no condensation                |          |                |          |
| Communication                      | Standard WIFI/GPRS/RS485 (optional)   |          |                |          |
| Warranty                           | Standard 8 years; 10 years optional   |          |                |          |

### Certificates and Approvals

IS 16169 : 2019,IS 16221 (Part 2) : 2015, IS 17980 : 2022

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