

# R SERIES(G2)

## THREE-PHASE INVERTER

The R Series (G2) inverter range is designed for three-phase residential and commercial installations, delivering unrivalled performance and versatility for increased yield potential and extended generation windows.



### PV STRING MONITORING

Real time PV string current sampling and monitoring, with string performance analysis and report abnormal condition capability.



### PID RECOVERY

Improving panel efficiency over life time and prevents further degradation with auto detection and adjustment.



### AFCI FUNCTION

Providing safe and reliable protection against arc, and accurate and fast response to ensure man and device safety.

**75kW ...>>> 136kW**



### IP66 RATED

Reliable performance under extreme environment and temperature condition, extending product life with minimum effort.



## TECHNICAL SPECIFICATIONS

| MODEL                                        | R75-G2     | R80-G2 | R100-G2 | R110-G2                   | R125-G2 | R136-G2 |
|----------------------------------------------|------------|--------|---------|---------------------------|---------|---------|
| <b>PV INPUT</b>                              |            |        |         |                           |         |         |
| Max. Array Power [kWp]                       | 150        | 160    | 200     | 220                       | 250     | 272     |
| Max. DC Input Power [kW]                     | 150        | 160    | 200     | 220                       | 250     | 272     |
| Max. Input Voltage [V]                       |            |        |         | 1100                      |         |         |
| Start-up Input Voltage [V]                   |            |        |         | 250                       |         |         |
| Rated Input Voltage [V]                      |            |        |         | 600                       |         |         |
| MPPT Operating Voltage Range [V] (Full Load) |            |        |         | 550 ~ 850                 |         |         |
| MPPT Operating Voltage Range [Vdc]           |            |        |         | 200 ~ 1000                |         |         |
| No. of MPP Trackers                          | 9/2        | 9/2    | 9/2     | 10/2                      | 10/2    | 10/2    |
| Max. Input Current [A]                       |            |        |         | 40                        |         |         |
| Max. Short-circuit Current [A]               |            |        |         | 50                        |         |         |
| <b>AC OUTPUT</b>                             |            |        |         |                           |         |         |
| Rated Output Power [kW]                      | 75         | 80     | 100     | 110                       | 125     | 136     |
| Max. Output Apparent Power [kVA]             | 75*/82.5   | 88     | 110     | 121                       | 137.5   | 138     |
| Max. Output Current [A]                      | 113.7*/125 | 133.3  | 166.7   | 183.3                     | 199.3   | 200     |
| Rated Grid Voltage [Vac]                     |            |        |         | 400, 3W+N+PE              |         |         |
| AC Voltage Range [Vac]                       |            |        |         | 320 ~ 460                 |         |         |
| Grid Voltage Range [Vac]                     |            |        |         | 320 ~ 480                 |         |         |
| Grid Frequency Range [Hz]                    |            |        |         | 45 ~ 55 / 55 ~ 65         |         |         |
| Adjustable Power Factor                      |            |        |         | 0.8 Leading ~ 0.8 Lagging |         |         |
| THDi [%]                                     |            |        |         | <3                        |         |         |
| <b>EFFICIENCY</b>                            |            |        |         |                           |         |         |
| Max. Efficiency [%]                          |            |        |         | 98.6                      |         |         |
| European Efficiency [%]                      |            |        |         | 98.2                      |         |         |
| <b>PROTECTION</b>                            |            |        |         |                           |         |         |
| DC Switch                                    |            |        |         | Yes                       |         |         |
| DC Reverse Polarity Protection               |            |        |         | Yes                       |         |         |
| AC Overcurrent Protection                    |            |        |         | Yes                       |         |         |
| AC Short-circuit Protection                  |            |        |         | Yes                       |         |         |
| Surge Protection                             |            |        |         | DC Type II / AC Type II   |         |         |
| PID Recovery                                 |            |        |         | Yes                       |         |         |
| Insulation Monitoring                        |            |        |         | Yes                       |         |         |
| Residual Current Monitoring                  |            |        |         | Yes                       |         |         |
| AFCI                                         |            |        |         | Optional                  |         |         |
| PV String Current Monitoring                 |            |        |         | Optional                  |         |         |
| <b>GENERAL DATA</b>                          |            |        |         |                           |         |         |
| Dimensions (W*H*D) [mm]                      |            |        |         | 975*630*360               |         |         |
| Weight [kg]                                  |            |        |         | 90                        |         |         |
| Operating Temperature [°C]                   |            |        |         | -30 ~ 60 (Derating at 50) |         |         |
| Cooling Method                               |            |        |         | Smart Air Cooling         |         |         |
| Operating Altitude [m]                       |            |        |         | 4000 (>3000m Derating)    |         |         |
| Relative Humidity Range [%]                  |            |        |         | 0 ~ 100 (No condensation) |         |         |
| Night Power Consumption [W]                  |            |        |         | 3.5                       |         |         |
| Ingress Protection Rating                    |            |        |         | IP66                      |         |         |
| Isolation Method                             |            |        |         | Non-isolated              |         |         |
| Display                                      |            |        |         | LED,Wi-Fi+APP             |         |         |
| Communication                                |            |        |         | RS485 / USB / Wi-Fi+LAN   |         |         |
| DC Connection Type                           |            |        |         | MC4 Similar               |         |         |
| AC Connection Type                           |            |        |         | OT Terminal               |         |         |
| <b>STANDARD</b>                              |            |        |         |                           |         |         |

IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 61000-6-3, EN 50549