

# R6 Series Three Phase On-grid Inverter

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R6 series is the SAJ's middle to high output platform on on-grid solar inverter, with good efficiency, AFCI optional, 110% AC overload and stable remote control connection. R6 covers 5-50kW, 2-4MPPTs and both single and three phase grid.



- ❑ AFCI(Optional)
- ❑ String current up to 16A
- ❑ Max. efficiency 98.8%
- ❑ Built-in AC & DC SPD
- ❑ 110% AC overloading
- ❑ Safety & reliability

R6-15K-T2-32 | R6-17K-T2-32 | R6-20K-T2-32  
R6-22K-T2-32 | R6-25K-T2-32-B | R6-25K-T2-32

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| MODEL                                  | R6-15K-T2-32   | R6-17K-T2-32 | R6-20K-T2-32 | R6-22K-T2-32 | R6-25K-T2-32-B | R6-25K-T2-32 |
|--|--|--------------|--------------|--------------|----------------|--------------|
| <b>DC Input</b>                        |  |              |              |              |                |              |
| Max. PV Array Power [Wp]@STC           | 22500  | 25500        | 30000        | 33000        | 37500          | 37500        |
| Max. DC Voltage [V]                    | 1100   |              |              |              |                |              |
| MPPT Voltage Range [V]                 | 180 ~ 1000   |              |              |              |                |              |
| Rated DC Voltage [V]                   | 600  |              |              |              |                |              |
| Start Voltage [V]                      | 200  |              |              |              |                |              |
| Min. DC Voltage [V]                    | 180  |              |              |              |                |              |
| Max. DC Input Current [A]              | 32/32  |              |              |              |                |              |
| Max. DC Short Circuit Current [A]      | 38.4/38.4  |              |              |              |                |              |
| No. of Strings per MPPT                | 2/2  |              |              |              |                |              |
| No. of MPPT                            | 2  |              |              |              |                |              |
| DC Switch                              | Integrated   |              |              |              |                |              |
| <b>AC Output</b>                       |  |              |              |              |                |              |
| Rated AC Power [W]                     | 15000  | 17000        | 20000        | 22000        | 25000          | 25000        |
| Max. Apparent Power <sup>*1</sup> [VA] | 16500  | 18700        | 22000        | 24200        | 25000          | 27500        |
| Rated Output Current [A]@230Vac        | 21.7   | 24.6         | 29           | 31.9         | 36.2           | 36.2         |
| Max. Output Current [A]                | 25   | 28.3         | 33.3         | 36.7         | 37.9           | 41.7         |
| Rated AC Voltage/Range [V]             | 3+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485   |              |              |              |                |              |
| Rated Output Frequency/Range [Hz]      | 50,60/45 ~ 55,55 ~ 65  |              |              |              |                |              |
| Power Factor [cos φ]                   | 0.8 leading ~ 0.8 lagging  |              |              |              |                |              |
| Total Harmonic Distortion [THDi]       | <3%  |              |              |              |                |              |
| <b>Efficiency</b>                      |  |              |              |              |                |              |
| Max. Efficiency                        | 98.8%  |              |              |              |                |              |
| Euro Efficiency                        | 98.5%  |              |              |              |                |              |
| <b>Protection</b>                      |  |              |              |              |                |              |
| Internal Overvoltage Protection        | Integrated   |              |              |              |                |              |
| DC Insulation Resistance Detection     | Integrated   |              |              |              |                |              |
| Grid Monitoring                        | Integrated   |              |              |              |                |              |
| GFCI Monitoring                        | Integrated   |              |              |              |                |              |
| DCI Monitoring                         | Integrated   |              |              |              |                |              |
| AC Short Circuit Current Protection    | Integrated   |              |              |              |                |              |
| AC Grounding Detection                 | Integrated   |              |              |              |                |              |
| DC Surge Protection                    | Integrated   |              |              |              |                |              |
| AC Surge Protection                    | Integrated   |              |              |              |                |              |
| Anti-islanding Protection              | Integrated   |              |              |              |                |              |
| AFCI Protection                        | Optional   |              |              |              |                |              |
| <b>Interface</b>                       |  |              |              |              |                |              |
| DC Connection                          | D4/MC4(Optional)   |              |              |              |                |              |
| AC Connection                          | Plug-in Connector  |              |              |              |                |              |
| Display                                | LED+APP  |              |              |              |                |              |
| Communication Port                     | RS232(USB)+RS485(RJ45)+DRM   |              |              |              |                |              |
| Communication                          | Wi-Fi/Ethernet/4G(Optional)  |              |              |              |                |              |
| <b>General Parameters</b>              |  |              |              |              |                |              |
| Topology                               | Non-isolated   |              |              |              |                |              |
| Consumption at Night [W]               | <1   |              |              |              |                |              |
| Operating Temperature Range            | -40°C to +60°C (45°C to 60°C with derating)  |              |              |              |                |              |
| Cooling Method                         | Intelligent Fan cooling  |              |              |              |                |              |
| Ambient Humidity                       | 0-100% Non-condensing  |              |              |              |                |              |
| Altitude                               | 4000m (>3000m Power Derating)  |              |              |              |                |              |
| Noise [dBA]                            | <50  |              |              |              |                |              |
| Ingress Protection                     | IP65   |              |              |              |                |              |
| Mounting                               | Wall Mounting  |              |              |              |                |              |
| Dimensions [H*W*D] [mm]                | 409*558*234.5  |              |              |              |                |              |
| Weight [kg]                            | 22.5   |              |              |              |                |              |
| Warranty [Year]                        | 10   |              |              |              |                |              |
| Applicable Standard                    | EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-21, AS 4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105, VDE 0126-1-1 |              |              |              |                |              |

Remarks: \*1 According to C10/C11, Max. Apparent Power= Rated AC Power.