

R5 SERIES

SINGLE PHASE



R5-0.7K-S1-15 | R5-1K-S1-15 | R5-1.5K-S1-15
R5-2K-S1-15 | R5-2.5K-S1-15 | R5-3K-S1-15



Compact and light weight



APP connection, all data at real time



Remote maintenance configuration



Quiet operation, no noise pollution



External module with screen display



High reliability, relay redundancy design

| Model | R5-0.7K-S1-15 | R5-1K-S1-15 | R5-1.5K-S1-15 | R5-2K-S1-15 | R5-2.5K-S1-15 | R5-3K-S1-15 |
|---------------------------------------|--|-------------|---------------|-------------|---------------|-------------|
| Input (DC) | | | | | | |
| Max. PV Array Power [Wp]@STC | 1050 | 1500 | 2250 | 3000 | 3750 | 4500 |
| Max. Input Voltage [V] | 450 | | | 500 | | |
| MPPT Voltage Range [V] | 40-425 | | | 50-450 | | |
| Nominal Input Voltage [V] | 360 | | | | | |
| Start-up Voltage [V] | 40 | | | 50 | | |
| Min. Input Voltage [V] | 40 | | | | | |
| Max. Input Current [A] | 15 | | | | | |
| Max. DC Short Circuit Current [A] | 18 | | | | | |
| No. of Strings per MPPT | 1 | | | | | |
| No. of MPPT | 1 | | | | | |
| DC Switch | Integrated | | | | | |
| Output (AC) | | | | | | |
| Rated AC Output Power [W] | 700 | 1000 | 1500 | 2000 | 2500 | 3000 |
| Rated Apparent Power*1 [VA] | 770 | 1100 | 1650 | 2200 | 2750 | 3300 |
| Rated AC Output Current [A]@230Vac | 3.1 | 4.4 | 6.6 | 8.7 | 10.9 | 13.1 |
| Max. AC Output Current [A] | 3.5 | 5.0 | 7.5 | 10 | 12.5 | 15 |
| Nominal AC Voltage/ Range [V] | 220,230,240/180-280 | | | | | |
| Nominal AC Grid Frequency/ Range [Hz] | 50,60 / 45-55,55-65 | | | | | |
| Total Distortion Harmonic [THDi] | <2% | | | | | |
| Power Factor [cos φ] | 0.8 leading~0.8 lagging | | | | | |
| Feed-in | L+N+PE | | | | | |
| Efficiency | | | | | | |
| Max. Efficiency | 97.2% | 97.3% | 97.4% | 97.6% | 97.7% | 97.8% |
| Euro Efficiency | 96.4% | 96.7% | 96.8% | 97.0% | 97.1% | 97.2% |
| MPPT Accuracy | >99.9% | | | | | |
| Protection | | | | | | |
| Internal Over-voltage Protection | Integrated | | | | | |
| DC Insulation Resistance Detection | Integrated | | | | | |
| Grid Monitoring | Integrated | | | | | |
| AC Short Circuit Current Protection | Integrated | | | | | |
| AC Grounding Detection | Integrated | | | | | |
| GFCI Monitoring | Integrated | | | | | |
| DCI Monitoring | Integrated | | | | | |
| DC Surge Protection | Type III | | | | | |
| AC Surge Protection | Type III / Type II (Optional) | | | | | |
| Thermal Protection | Integrated | | | | | |
| Anti-island Protection | AFD | | | | | |
| Interface | | | | | | |
| DC Connection | MC4 | | | | | |
| AC Connection | Plug-in Connector | | | | | |
| Display | LED+(Bluetooth/Wi-Fi+APP) | | | | | |
| Communication Port | RS232(USB)+RS485(RJ45)+DRM | | | | | |
| Communication | Wi-Fi/GPRS/4G(Optional) | | | | | |
| General Data | | | | | | |
| Topology | Transformerless | | | | | |
| Consumption at Night [W] | <0.2 | | | | | |
| Consumption at Standby [W] | 6 | | | | | |
| Operating Temperature Range | -40°C to +60°C | | | | | |
| Cooling Method | Natural Convection | | | | | |
| Ambient Humidity | 0-100% Non-condensing | | | | | |
| Altitude | 4000m (>3000m Power Derating) | | | | | |
| Noise [dBA] | <25 | | | | | |
| Ingress Protection | IP65 | | | | | |
| Mounting | Rear Panel | | | | | |
| Dimensions [H*W*D][mm] | 302*289*142 | | | | | |
| Weight [kg] | 7.2 | | | 7.5 | | |
| Warranty [Year] | 5/10/15/20/25 | | | | | |
| Certifications | IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, EN50549, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, AS4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105 | | | | | |

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