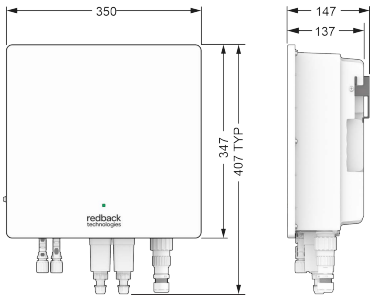
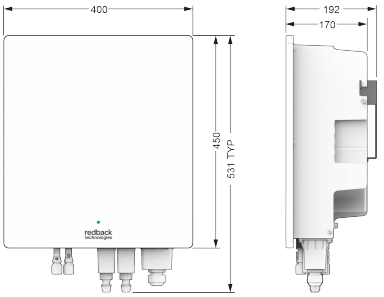
# Smart Inverter




**SI5000 & SI6000**
**Smart Inverter**




**SI8000 & SI10000**
**Smart Inverter**

| | SI5000 | SI6000 | SI8000 | SI10000 |
|---|---|---|---|---|
| **PV Port** | | | | |
| Maximum PV Input Power | 7,500Wp | 9,000Wp | 12,000Wp | 15,000Wp |
| Number of MPPTs | 2 | | | |
| Strings per MPPT Input | 1/1 | | 2/1 | |
| MPPT Operating Voltage (range) | DC 70 - 540V | | DC 60 - 540V | |
| Start-up Voltage | DC 90V | | | |
| Maximum Input Voltage (Vmax) | DC 550V | | | |
| Maximum Current (Imp) | DC 15/15A | | DC 30/20A | |
| Short Circuit Current (Isc) | DC 20/20A | | DC 40/26A | |
| **Grid Interactive Port** | | | | |
| Rated Output Apparent Power | 5,000VA | 6,000VA | 8,000VA | 10,000VA |
| Max. Output Apparent Power | 5,500VA | 6,000VA | 8,800VA | 10,000VA |
| Nominal Output Voltage | AC 230V | | | |
| Nominal Output Frequency | 50Hz | | | |
| Rated Output Current | AC 21.74A | AC 26.09A | AC 34.78A | AC 43.48A |
| Max. Output Current | **AC 25.00A** | AC 27.30A | AC 40.00A | AC 45.50A |
| Power Factor (range) | 0.8 lagging to 0.8 leading | | | |
| Output Voltage THD | <3% | | | |
| **General Information** | | | | |
| Operating Temperature | -25°C to 60°C | | | |
| Operating Temperature Derated Output | Below 10°C and over 45°C | | | |
| Operating Relative Humidity | 0-100% | | | |
| Operating Altitude | 4000m | | | |
| Protective Class | I | | | |
| Ingress Protection Rating | IP65 (outdoors) | | | |
| AC Overvoltage Category | OVCIII | | | |
| DC Overvoltage Category | OVCII | | | |
| Active Anti-islanding Method | Active Frequency Shifting | | | |
| Inverter Topology | Non-Isolated | | | |
| Country of Origin | China | | | |
| Demand Response Modes | DRM 0 | | | |
| Standby Self-Consumption | <6W | | | |
| Noise Emissions | <30 dBA | | | |
| Weight | 8.5kg | 8.5kg | 16kg | 16kg |
| Material | Aluminium | | | |
| Finish | Sealed and powder coated | | | |
| Warranty | 10 Years | | | |
| **Efficiency** | | | | |
| Maximum Efficiency | 97.30% | | 97.50% | |
| European Efficiency | 96.50% | | 96.80% | |
| **PV Port Isolator** | | | | |
| Utilisation Category | DC-PV2 | | | |
| **Load Control** | | | | |
| Relays | Redback Smart Load Control using Direct IO; on kWh meter | | | |
| **User Interface** | | | | |
| Front Panel Display | Coded, coloured LEDs | | | |
| Communications | Bluetooth for commissioning,-WiFi or ethernet for remote access | | | |
| Remote Access | Redback Portal or MyRedback app | | | |
| Remote Firmware Updates | Supported | | | |
| Power/Energy Monitoring | Includes 1 x utility grade energy meter (class 1) | | | |
| **Product Compliance** | | | | |
| Certifications and Approvals | AS/NZS 4777.2:2020 · IEC 62116:2014 · IEC 60529 · RCM · IEC 62109-1:2010 · EN 61000 · RCM (LVD, EMC, RoHS directives) · IEC 62109-2:2011 | | | |
| Designed with Installation Standards Considered | AS/NZS 3000:2018 · AS/NZS 5033:2021 | | | |

Max PV Input Power is determined by the appropriate selection of panels within the MPPT voltage and current range, and actual design needs to be compliant to local regulation.