

The Smart Inverter



The Redback Smart Inverter is designed for Australian households looking to invest in solar. Designed and tested in Australia¹, the single-phase grid-tied solar PV inverter series is affordable yet robust and built to survive in harsh Australian outdoor conditions. In-built Smart Load Control allows relay functionality for a single load. Available in four sizes (5kVA, 6kVA, 8kVA & 10kVA), with a smart meter and Wi-Fi dongle coming standard at no extra cost. Ethernet-enabled EMS available as an upgrade.

SI8000 / SI10000



SI5000 / SI6000



5kVA, 6kVA, 8kVA
or 10kVA options



Smart meter & Wi-Fi
dongle included



Smart load
control



Easy monitoring
app and portal



Australian-supported
10-year warranty



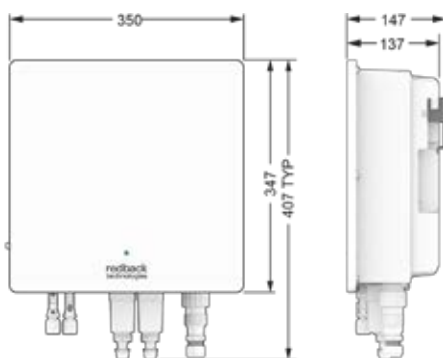
Indoor or outdoor
installation

¹ Certification conducted overseas in parallel with in house testing in Australia

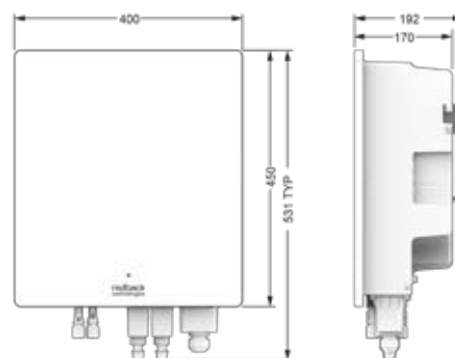


Smart Inverter

Product Model	SI5000	SI6000	SI8000	SI10000
PV Port				
Maximum Recommended PV Input Power ¹	7500Wp	9000Wp	12000Wp	15000Wp
Number of MPPTs	2			2
Strings per MPPT Input	1/1			2/1
MPPT Operating Voltage (range) ¹	DC 70 - 540V			DC 70 - 540V
Maximum Input Voltage (Vmax)	DC 550V			DC 550V
Maximum Current (Imp) ¹	DC 13.5/13.5A ²			DC 27/13.5A ²
Short Circuit Current (Isc)	DC 20/20A ³			DC 40/20A ³
Grid Interactive Port				
Nominal Output Voltage	AC 230V			AC 230V
Nominal Output Frequency	50 Hz			50 Hz
Max. Output Current	AC 25A	AC 27.3A	AC 40A	AC 45.5A
Rated Output Apparent Power	5000VA	6000VA	8000VA	10000VA
Peak Output Apparent Power	5500VA	6000VA	8800VA	10000VA
Power Factor (range)		0.8 lagging to 0.8 leading		
Output Voltage THD		<3%		
General Information				
Operating Temperature		-25°C to 60°C		
Operating Relative Humidity		0 - 100%		
Operating Altitude		0 - 4000m		
Protective Class		I		
Ingress Protection Rating		IP65		
AC Overvoltage Category		OVC III		
DC Overvoltage Category		OVC II		
Active Anti-islanding Method		Frequency Shift		
Inverter Topology		Non-isolated		
Country of Origin		China		
Demand Response Modes		DRM 0		
Standby Self-Consumption		<6W		
Noise Emissions		<30 dBA		
Warranty		10 Years		
Efficiency				
Maximum Efficiency		97.3%		97.5%
European Efficiency		96.5%		96.8%
Physical Data				
Installed Weight		8.5kg		16kg
Material		Aluminium		
Finish		Sealed and powder coated		
PV Port Isolator				
Utilisation Category		DC-PV2		
Communications Ports and Protocols				
Relays		Direct IO; on kWh Meter		
User Interface				
Front Panel Display		Coded, coloured LED Bluetooth for commissioning; Wi-Fi for remote access; Ethernet (Optional) NFC		
Communications		NFC		
Remote Access		Web Portal; MyRedback App; Redback Install app		
Remote Firmware Updates		Supported		
Power/Energy Monitoring		Includes 1 x utility grade energy meter (class 1)		
		AS/NZS 4777.2:2020 IEC 62109-1:2010 IEC62109-2:2011 IEC 62116:2014 IEC 60529 EN 61000 RCM CE AS/NZS 3000:2018 AS/NZS 5033:2014 (inc. Amd 1 & 2)		
Certifications and Approvals				
Designed with Installation Standards Considered				



SI5000 & SI6000 Smart Inverter



SI8000 & SI10000 Smart Inverter



¹ Max PV Input Power is determined by the appropriate selection of panels within the MPPT voltage and current range
² With firmware 120602
³ Manufacturer's declared and tested Max Short Circuit Current (Isc Max)