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 gridtied 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.



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

SI8000 / SI10000



SI5000 / SI6000



Smart meter & Wi-Fi dongle included



Smart load control



Easy monitoring app and portal

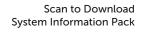


Australian-supported 10-year warranty



Indoor or outdoor installation

The Smart Inverter



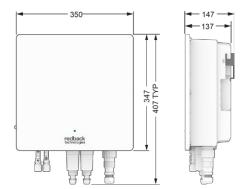


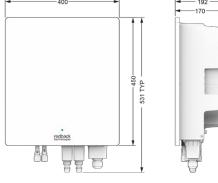
Smart Inverter

Product Model	SI5000	\$16000	\$18000	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		- 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 17.5/17.5A ³ DC 35/17.5A ³				
Grid Interactive Port	DC 17.3/17.3A				
	40.	2001	40	0001	
Nominal Output Voltage		AC 230V AC 230V 50 Hz 50 Hz			
Nominal Output Frequency			AC 40A AC 45.5A		
Max. Output Current	AC 25A	AC 27.3A			
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 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	7.5%	
European Efficiency	96.5%		96.8%		
Physical Data					
Installed Weight	8	5kg	10	6kg	
Material	0		inium	ong	
Finish	Sealed and powder coated				
PV Port Isolator	Counce and portion counce				
Utilisation Category		DC	PV2		
Communications Ports and Protocols		DC-	FVZ		
Relays		Direct IO: or	a WWh Matar		
User Interface		Direct 10; of	n kWh Meter		
		0.1.1	1 1150		
Front Panel Display	Coded, coloured LED				
	Bluetooth for commissioning;				
Communications	Wi-Fi for remote access;				
	Ethernet (Optional)				
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				
Certifications and Approvals	IEC 62116:2014				
oci unications and Approvats	IEC 60529				
	EN 61000				
	RCM				
	CE				
Designed with Installation Standards Considered	AS/NZS 3000:2018				

Designed with Installation Standards Considered

AS/NZS 3000:2018 AS/NZS 5033:2014 (inc. Amd 1 & 2)







SI5000 & SI6000 Smart Inverter

SI8000 & SI10000 Smart Inverter

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