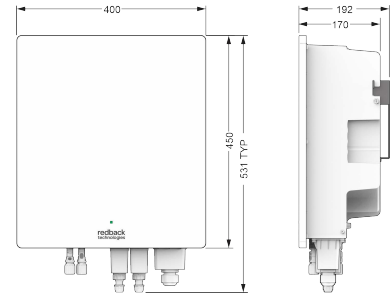


**SI5000 & SI6000
Smart Inverter ***



**SI8000 & SI10000
Smart Inverter ***

**Measurements in mm*

	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 4772:2020 · 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			