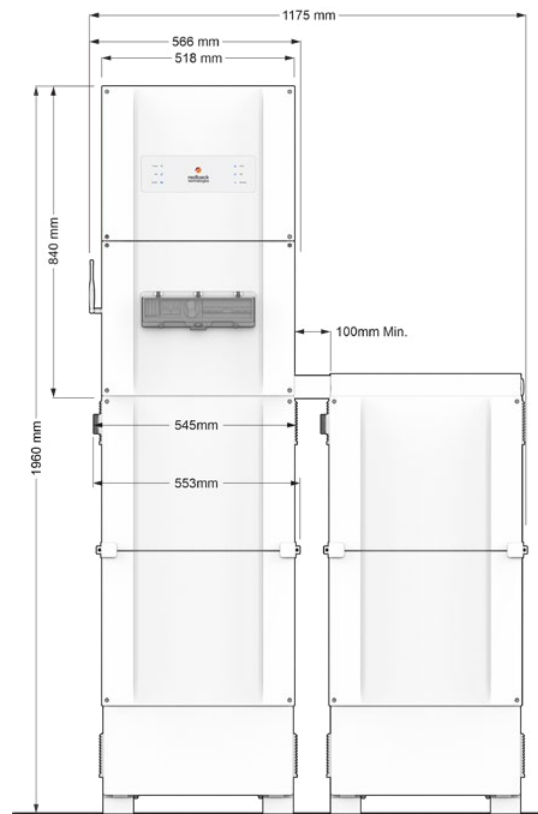


The Smart 3-Phase Hybrid System

Scan to Download
System Information Pack



Product Model	ST10000
PV Port	
Number of MPPTs	2
Strings per MPPT Input	2/1
MPPT Operating Voltage (range)	DC 200 - 850V*
Maximum Input Voltage (Vmax)	DC 1000V*
Maximum Current (Imp)	DC 12.5/22A
Short Circuit Current (Isc)	DC 15.2/27.6A
Grid Interactive Port	
Nominal Output Voltage	AC 400/380V
Nominal Output Frequency	50 Hz
Max. Output Current	AC 16.5A / phase
Rated Output Apparent Power	10000VA
Rated Input Current	AC 22.7 A/phase
Rated Input Apparent Power	15000VA
Power Factor (range)	0.8 lagging to 0.8 leading
Output Voltage THD	<3%
Backup Port	
Nominal Output Voltage	AC 230V
Nominal Output Frequency	50 Hz
Rated Current	AC 16.5A / phase
Rated Active Power	AC 10000W
Rated Apparent Power	10000VA
Peak Apparent Power	16500VA (60 sec max)
Output Voltage THD	<3%
Battery Port	
Voltage (nominal)	DC 180 - 600V
Max. Current (charge)	DC 25 A
Max. Power (charge)	DC 10000W
Max. Current (discharge)	DC 25 A
Max. Power (charge)	DC 10000W
Battery Type	Li-ion
Battery Depth of Discharge	90%
General Information	
Operating Temperature	-35°C to 60°C
Operating Temperature Derated Output	Below 10°C and over 45°C
Operating Relative Humidity	0 - 95%
Operating Altitude	0 - 4000m
Protective Class	I
Ingress Protection Rating	IP66
AC Overvoltage Category	OVC III
DC Overvoltage Category	OVC II
Active Anti-islanding Method	Active Frequency Drift
Inverter Topology	Non-isolated
Country of Origin	China
Demand Response Modes	DRM 0
Standby Self-Consumption	<15W
Noise Emissions	<30 dBA
Warranty	10 Years
Efficiency	
Maximum Efficiency	97.60%
Maximum Battery to Load Efficiency	97.50%
European Efficiency	96.80%
Physical Data	
Installed Weight	127-210kg
Material	Aluminium
Finish	Sealed and powder coated
Battery Enclosure Data	
Enclosure Model	BE14000-HV
Name	Smart Hybrid Battery Enclosure
Chemistry (label only)	
Number of Battery Units	4 or 8
Storage Capacity	N x 2.4kWh N x 3.55kWh RB-HVS-Nx48-50 RB-HVS-Nx48-74
Battery System Model	
Maximum Capacity	28.4kWh**
Nominal Voltage	DC N X 48V
Rated Current	DC 25A
Fan Specification	DC 12V / 0.3A x2
Protective Class	I
Ingress Protection Rating	IP54
Material	Steel
Finish	Sealed and powder coated
Isolation Devices	
PV Port Isolator Utilisation Category	DC-PV2
Grid Interactive Port Isolator Rated Operational Current	40A
Backup Port Isolator Rated Operational Current	25A
Battery Port Isolator Rated Operational Current	32A
Battery Cabinet Isolator Rated Operational Current	32A
Communications Ports and Protocols	
Relays	RJ45; 3x Digital I/O; +DC5V & GND
User Interface	
Front Panel Display	Coloured LEDs
Communications	Bluetooth for commissioning; Wi-Fi or ethernet for remote access
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)
Certifications and Approvals	AS/NZS 4777.2:2020 IEC 62109-1:2010 IEC62109-2:2011 IEC 62116:2014 IEC 62040-1:2017 IEC 62477-1:2012 IEC 60529 EN 61000 RCM CE AS/NZS 3000:2018 AS/NZS 5033:2014 (Inc. Amd 1 & 2) AS/NZS 5139:2019
Designed with Installation Standards Considered	



*600 V maximum voltage for PV arrays on domestic dwellings N = number of battery modules
**Maximum capacity 14.2kWh with single cabinet, or 28.4kWh with optional expansion cabinet.