The Smart 3-Phase Hybrid System



Redback's Smart 3-Phase Hybrid System is a robust hybrid solution designed for three phase homes or light commercial installations.

The system combines a 10kVA solar inverter with two standard battery storage capacity options of either 9.6 or 14.2kWh and an option for an extended capacity of 19.2 or 28.4kWh. The Smart 3-Phase Hybrid System also includes a pre-wired BoS and integrated isolators to ensure a fast and easy installation.



9.6kWh, 14.2kWh, 19.2kWh or 28.4kWh Battery Storage Capacity



Backup Supply in a Power Outage*



Streamlined All-In-One Design



Indoor or Outdoor Installation



Easy Monitoring App and Portal



Australian-supported 10-Year Warranty

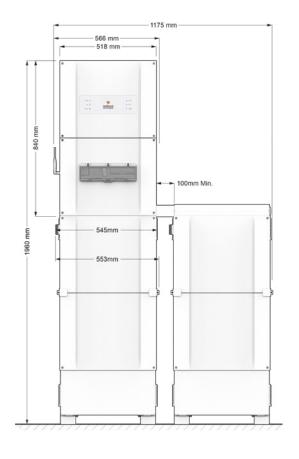


The Smart 3-Phase Hybrid System

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Product Model	ST10000
PV Port	0.2000
Number of MPPTs	2
Strings per MPPT Input	2/1
MPPT Operating Voltage (range) Maximum Input Voltage (Vmax)	DC 200 - 850V* DC 1000V*
Maximum Current (Imp)	DC 1000V
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 Power Factor (range)	15000VA 0.8 lagging to 0.8 leading
Output Voltage THD	<3%
Backup Port	.5.0
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) <3%
Output Voltage THD Battery Port	<3%
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	0500+ 6000
Operating Temperature	-35°C to 60°C Below 10°C and over 45°C
Operating Temperature Derated Output Operating Relative Humidity	Below 10°C and over 45°C 0 - 95%
Operating Altitude	0 - 4000m
Protective Class	0 - 4000H
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 Noise Emissions	<15W <30 dBA
Warranty	10 Years
Efficiency	TO Teals
Maximum Efficiency	97.60%
Maximum Battery to Load Efficiency	97.50%
European Efficiency	96.80%
Physical Data	
Installed Weight	127-210kg
Material	Aluminium
Finish Retains Foots	Sealed and powder coated
Battery Enclosure Data Enclosure Model	BE14000-HV
Name	Smart Hybrid Battery Enclosure
Chemistry (label only)	Office Trybha Battery Enologate
Number of Battery Units	4 or 8
•	N x 2.4kWh
Storage Capacity	N x 3.55kWh
Battery System Model	RB-HVS-Nx48-50
* *	RB-HVS-Nx48-74
Maximum Capacity	28.4kWh**
Nominal Voltage Rated Current	DC N X 48V
Fan Specification	DC 25A DC 12V / 0.3A x2
Protective Class	DC 12V / 0.5A X2
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 Battery Cabinet Isolator Rated Operational Current	32A 32A
Communications Ports and Protocols	3ZA
Relays	RJ45; 3x Digital I/O; +DC5V & GND
User Interface	,,
Front Panel Display	Coloured LEDs
Communications	Bluetooth for commissioning;
Communications	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)
	AS/NZS 4777.2:2020 IEC 62109-1:2010
	IEC 62109-1:2010
	IEC 62116:2014
6-16-16-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	IEC 62040-1:2017
Certifications and Approvals	IEC 62477-1:2012
	IEC 60529
	EN 61000
	RCM
	CE
	AS/NZS 3000:2018
Designed with Installation	AS/NZS 5000.2016 AS/NZS 5033:2014 (inc. Amd 1 & 2)





AS/NZS 5139:2019