

# APEX

POWERSTAR 10H SERIES  
INVERTER RANGE



## POWERSTAR 10H SERIES INVERTER RANGE

The Powerstar 10H inverter range is designed to be a robust and reliable hybrid energy storage platform. It is ideal for applications as varied as off-grid farms and lodges to urban houses and factories. It provides a smart and seamless interface between the grid, generators, renewable energy and storage.

- Can be run in parallel on a single phase or in synchronised phase configurations.
- Grid synchronous for grid export and feeding power to non-essential loads.
- Low-voltage DC (48 V).
- Designed for compliance with NRS097-2-1:2017 (Certification pending).
- Built in CAN port for communication with batteries and Apex other products.
- Built in remote monitoring.
- Single phase transformer-based topology.
- Designed for harsh environments.

### Smart Features

The Powerstar 10H can be configured to automatically start and stop a generator, shed loads through a contactor and other functions using the two auxiliary relays built in, using various preconfigured logic options.

## TECHNICAL SPECIFICATIONS

AC Parameters	Specification	Specification Nominal Range
	Inverter Rated Power* (Continuous / 30 minutes)	8000 W / 10000 W
	Voltage	230 V (184 V to 276 V)
	Inverter Rated Power* (Continuous / 30 minutes)	8000 W / 10000 W
	Voltage	230 V (184 V to 276 V)
	Frequency	50 Hz (47 Hz to 58 Hz)
	Source Current Input	63 A
	Load Current Output	63 A
	Inverter Current (Continuous / 30 minutes / 2 s)	35 A / 45 A / 80 A
	Inverter Power factor range	+1 to -1

DC Parameters	Input Voltage	48 V (42 V to 63 V)
	Rated Input Current** (battery discharge current)	190 A
	Rated / Max Output Current** (battery charge current)	155 A / 190 A

General	Protective Class	I
	Ingress Protection	IP20
	Operating Temperature	-5°C to 45°C
	Relative Humidity	5% to 85%
	Cooling	Forced
	Tare losses (No Load / Standby)	< 60 W / < 8 W
	Maximum altitude for rated power	1000 m above sea level
	Supported battery types	Lead Acid Lithium batteries
	Minimum battery size	250 Ah

Mechanical	Wall-mounted	
	Dimension (W × H × D)	450 mm × 730 mm × 220 mm
	Weight	95 kg
	Source Input Connections (External / Internal)	M40 Gland / Terminal Block 25mm <sup>2</sup>
	Load Output Connections (External / Internal)	M40 Gland / Terminal Block 25mm <sup>2</sup>
	Battery Connections (External / Internal)	2 × M40 Glands / 2 × M10 Studs
	Maximum altitude for rated power	1000 m above sea level
	Internal Battery Fuse	300 A

\* At 230 V, 50 Hz, 25°C

\*\* At 25°C

<b>Features</b>	Human Machine Interface (HMI)	Full colour 3.5 inch touch screen
	Local Communication Interfaces	Ethernet, CAN (BMS)
	Remote Monitoring Built In	Ethernet
	2 x Programmable Digital Inputs	
	2 x Programmable relay Outputs	
	External AC Current measurement	
	External AC solar current measurement	