

POWERSTATION ULTRA DOUBLE

DUAL SMART AC OUTPUT



Constant 12kW of AC Output



Up to 28.8 kWh of Battery Storage



Up to 12000W of PV Input



User & Installer Friendly



Pre-wired, pre-programmed, all in one plug & play design



4.3 Inch touch screen display

Compatible with pure sine wave auto-start generators

Smart Energy Usage



Remote Wi-fi monitoring

Programmable Dual Smart AC Outputs to maximise self-consumption.

Modular expandable design



PV array can be added to at any time

Battery Bank can be expanded during lifetime

Product Support



Local New Zealand based Tech Support

5 Year Warranty on Inverter & Switch gear

6000 cycle @ 90% DoD Performance warranty

RATED POWER	12000W	
GENERATOR INPUT		
Voltage	230 VAC	
Selectable Voltage Range	90-280 VAC	
Frequency Range	50Hz	
SYSTEM OUTPUT		
AC Voltage Regulation (Batt. Mode)	230 VAC \pm 5% (Output 1, Output 2)	
System AC Output Current (amps)	50 amps	
Overload capacity	5s@ \geq 150% load; 10s@110%-150% load; 100ms @ \geq 200% load	
Efficiency (Peak)	93%	
Transfer Time	20ms	
Waveform	Pure Sine Wave	
SOLAR CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	12000W	
MPPT Range @ Operating Voltage	120V – 300V	
Maximum PV Array Open Circuit Voltage	360VDC	
Maximum PV Input Current	54A	
Maximum Charge Current to Battery (PV + Utility)	240A	
INVERTER PHYSICAL		
Inverter Dimension, D x W x H (mm) each	140 x 295 x 468	
Net Weight (kgs) each	12.0	
Communication Interface	USB/RS232/RS485/Wi-fi/Dry-contact	
BATTERY BANK		
Battery Voltage	48 VDC	
Bulk and Floating Charge Voltage	53.2V (PYL)	
Overcharge Protection	54V (PYL)	
System Battery blocks	2 ~ 9	
BATTERY PARAMETERS - US3000C		
Items	4 Batteries	Up to 9 batteries (3552Wh/each battery)
Nominal Capacity (Wh)	14208	31968
Usable Capacity (Wh)	12787.2	28771.2
Dimension (mm)	442*420*132 /each battery	
Weight (Kg)	32 /each	
Discharge Voltage (V)	44.5 ~ 53.5	
Charge Voltage (V)	52.5 ~ 53.5	
Recommend Charge/Discharge Current (A)	37 /each battery	
Max. Charge/Discharge Current (A)	74-89@60sec /each battery	
Peak Charge/Discharge Current (A)	90~200@15sec /each battery	
Communication	RS485, CAN	
Depth of discharge (%)	90% (max)	
Working Temperature	0°C~50°C Charge/-10°C~50°C Discharge	
Shelf Temperature	-20°C~60°C	
Short current/duration time	<4000A/2ms /each battery	
Protective class	I	
IP rating of enclosure	IP20	
Humidity	5% ~ 95%(RH) No Condensation	
Certification	TÜV / CE / UN38.3/UL	
Design life	15+ Years (25°C/77°F)	
Cycle Life	>6,000 25°C	
Reference to standards	IEC62619, IEC63056, IEC62040, IEC62477-1, UL1973, U1642, UL9540A, VDE2510-50, IEC61000-6-2, IEC61000-6-3, UN38.3	
ENVIRONMENT		
Humidity	5%-95% Relative Humidity (Non-Condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	