

Containerised Hybrid Power Units

Hybrid power up to 90kVA, single and three phase



Our containerised hybrid power systems are an ideal solution for those needing power in remote locations, or temporary sites with no grid connection. With these units we offer a semi-bespoke design service to ensure that each site gets the exact off grid power solution it requires.

Containerised hybrid power units are designed to fit each client's onsite requirements and deliver electricity 24/7. A perfect option for more challenging environments and those with high power demands. A completely self-contained unit it will deliver power as demanded, and when loads are low, supply silent, emission free power.

Each containerised system uses our proprietary control technology, efficient generator power and energy storage in lithium ion or lead acid batteries with options for links to renewable power.



Silent Power

Battery storage delivers silent power



Reduced Engine Hours

Lower cost of operation due to less refuelling and servicing



Reduced Emissions

Reduces overall emissions (NOx CO2) and reliance on fossil fuels



Remote Monitoring

Control and monitor the system remotely



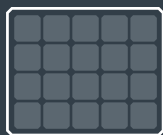
Renewables

Connect solar PV, wind and/or micro hydro

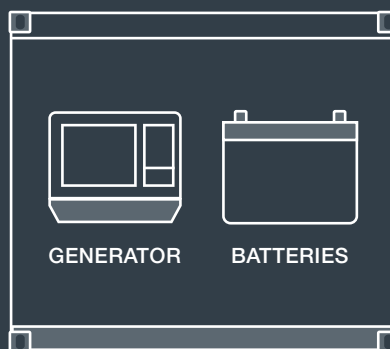
Containerised Hybrid Power Unit System



WIND



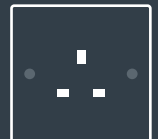
SOLAR ARRAY



GENERATOR

BATTERIES

CONTAINERISED
HYBRID POWER UNIT



AC LOADS

	30kVA HYBRID POWER UNIT	60kVA HYBRID POWER UNIT	90kVA HYBRID POWER UNIT
Inverter Charger Model	3 x Victron Quattro 48V 10000VA	6 x Victron Quattro 48V 10000VA	6 x Victron Quattro 48V 15000VA
Transfer switch	3 x 100A	6 x 100A	
AC Input	380-415VAC 3PH		
DC Voltage Range	38 – 66V		
Output Voltage	400VAC +- 2% Frequency: 50Hz +- 0.1%		
Cont. Output at 25 °C	24,000W	48,000W	72,000W
Cont. Output at 40 °C	19,500W	39,000W	60,000W
Peak power	60,000W	120,000W	150,000W
Outlets (Standard)	1 x 63A 3PH	1 x 125A 3PH	
Operating Temp Range	-20°C to +40°C (fan assisted cooling)		
MONITORING & CONTROL			
	Custom Control System with DSE Webnet integration		
BATTERIES			
Type / Quantity	7 x 48V	14 x 48V	18 x 48V
Cyclic Life (70% DOD)	4000		
Type	Lithium Ion Phosphate		
Capacity	40.3kWh (Usable 28.2kWh)	80.6kWh (Usable 56.4kWh)	103.7kWh (Usable 72.6kWh)
BACKUP GENERATOR			
Capacity	46kVA	85kVA	103kVA
Fuel Type	Diesel		
Integral Fuel Tank Capacity	100L	240L	
SAFETY			
	Automated Fogmaker Fire Suppression Kit		
	2400 Lumens Cool White LED External Floodlight		
ENCLOSURE			
Size	10ft ISO Container	20ft ISO Container	
Weight	5400kg	7660kg	8060kg
Lifting options	4 Point Lift		

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Made in the UK

Designed and built in the UK by Energy Solutions – with over 20 years of electrical power experience, each unit is manufactured to the exacting standards required for standalone power sources.

Warranty and Service

The unit is covered by our own one year warranty, and the Victron power electronics are covered with a 5 year limited warranty.

Images are for illustrative purposes only and actual products and examples may differ from those shown. All details correct at time of going to press but subject to change. E & EO."