

SPECIFICATION | SOLAR HYBRID GENERATOR



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## SOLAR HYBRID GENERATOR SPECIFICATIONS

OUTPUT POWER	Prime Rating @ 25°C	100Amp / 30kVA / 24kW	
	AC Output Voltage	50Hz, 230V	
	Output Connections	5 x 32A single phase IP67 CEE Socket outlets, RCBO protected OR 1 x 125A single phase IP67 CEE Socket outlet, RCBO protected.	
	Additional output connections	16A	
INPUT POWER	Solar panels (on board)	4.5kVA / 3.6kW	
	Solar panels (plug & play)	Solar Smart Input Sockets	
	Generator backup power	22kVA / 17kW	
	Generator Standard (EU) 2016/1628	STAGE V (EU) 2016/1628	
	Fuel Types	Standard Diesel: EN590:96 BS 2869 - A1 or A2 Alternative fuels from ONLY recognised/authorised suppliers: Bio Diesel B5 EN14212 / HVO EN15940 / GTL EN15940 / BTL EN15940	
	Fuel Consumption	<p><b>Fuel is only used when the generator is active.</b> Generator is constantly in AUTO and only activates when required; battery charging and/or high load spikes. NOTE: Using alternative fuels can reduce generator power rating by 4-8%</p> <p>100% load: 6.2 Litres per hour 75% load: 5.0 Litres per hour 50% load: 3.1 Litres per hour 25% load: 1.6 Litres per hour</p>	
	Fuel tank capacity	120L + Fuel Expansion Connections	
	Grid Connection (optional)	20kW	
STORAGE	Type	AGM or Lithium	
	Capacity @ 25°C	20.5kW	
	Charge Time (hours approx.)	3	
CONTROL	System Controls	<ul style="list-style-type: none"> <li>Low fuel level alarm &amp; monitoring.</li> <li>Generator control; load management, optimised quiet hours and scheduled runs.</li> <li>Enhanced system management.</li> <li>Ability for users to program custom logic sequences.</li> <li>System commissioning/decommissioning assistants.</li> <li>Troubleshooting assistants &amp; diagnostics.</li> </ul>	<ul style="list-style-type: none"> <li>User friendly graphical performance &amp; event logs.</li> <li>Enhanced environmental control.</li> <li>Remote communication, monitoring &amp; control.</li> </ul>
	Soft start timer	24/7 manually operated timer with soft start functionality to prevent overloading	
	Generator telemetry (optional)	<ul style="list-style-type: none"> <li>Monitoring.</li> <li>Enhanced system management.</li> <li>Generator control.</li> </ul>	<ul style="list-style-type: none"> <li>Troubleshooting assistants &amp; diagnostics.</li> <li>Event logs.</li> <li>Remote communication, monitoring &amp; control.</li> </ul>
ENVIRONMENT	Operating Temperature Range (°C)	-20°C to +55°C Humidity (non-condensing): max 95%	
	Solar panels - Max physical load	Wind: 4000 Pa, 408 kg/m <sup>2</sup> front & back Snow: 6000 Pa, 611 kg/m <sup>2</sup> front	
	Solar panels - Impact Resistance	25 mm diameter hail at 23 m/s	
MECHANICAL	Mobile Model Dimensions (mm)	Total Length Inc. Draw Bar & Steps – 5220mm Box Length – 3200mm Width closed – 2250mm Width open – 5298mm Height – 3080mm	
	Mobile Model Weight (kg)	3500kg	
	Mobile Model Lift Points	OPTIONAL	