

# SiteGrid – Hybrid Power Systems for Construction



## Driving up efficiency, driving down emissions

SiteGrid, our hybrid power system offers a convenient and efficient method of delivering power to any construction environment without a grid connection. Whether a site needs power for lighting, a welfare cabin or equipment SiteGrid will deliver power far more efficiently than a generator alone.

SiteGrid utilises generator power, and renewables if available, to store power in a sophisticated battery bank with a dedicated monitoring & control system, delivering silent power from the battery when needed. The generator will only be started when loads demand more power or, to top up the battery. Significantly reducing emissions, the size of generator required and fuel costs.

In addition, for intelligent power management, SiteGrid has an optional Energy Management Unit (EMU) which allows six separate loads to be fed independently and programmed with their own unique schedules.



## Monitoring and Control

Full online monitoring and control is available via the Victron VRM website. This shows all relevant parameter and historic data including battery capacity, power usage and solar input along with many other selectable parameters. The user can also set alarms to ensure that the whole system operates at its optimum performance at all times.



**Silent Power**  
Battery storage delivers silent power



**Fuel Saving**  
Save fuel by running generator less



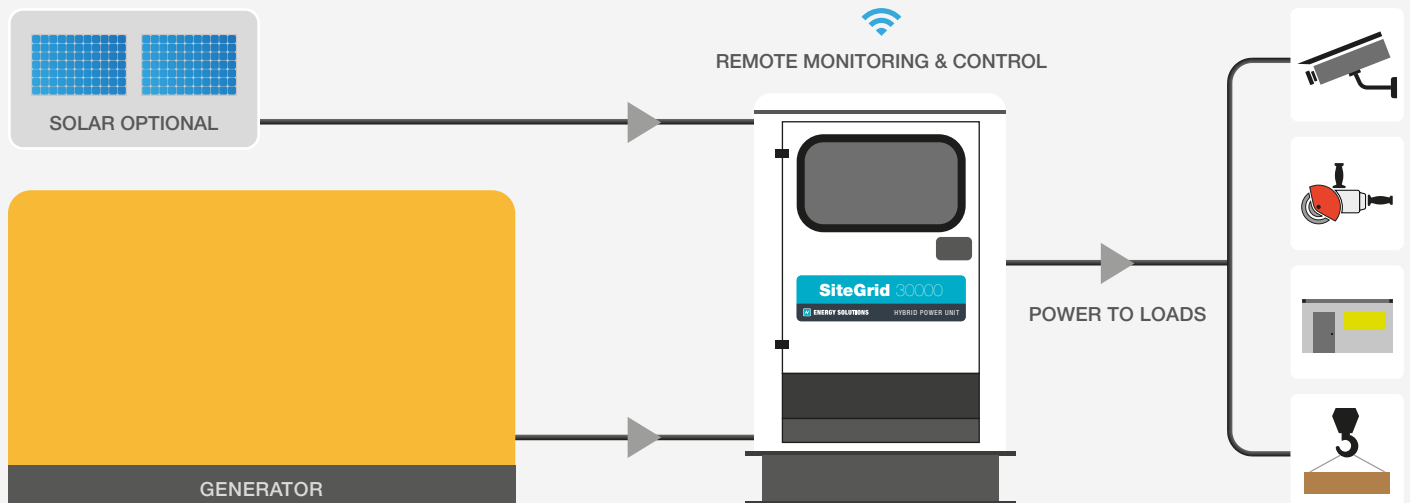
**Remote Monitoring**  
Full control and monitoring of your hybrid system

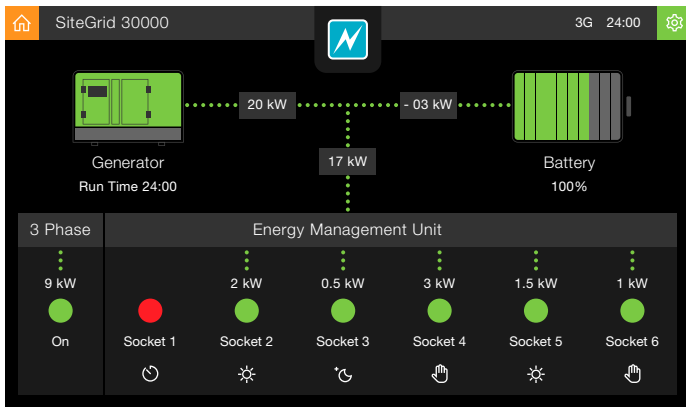


**Lower Emissions**  
Less generator run time reduces emissions



**Installation**  
Simple installation and configuration





## Energy Management Unit (EMU)

SiteGrid features an optional Energy Management Unit (EMU) to bring more sophisticated control for sites with a variety of power requirements. The EMU allows six separate loads to be fed from the unit and programmed with their own unique schedules. For example – one feed could be for security lighting that is triggered by the in-built light sensor, another could be for the drying cabin that does not need to be heated during Saturday and Sunday. The EMU system allows businesses to further reduce their emissions by using intelligent power planning, in addition to reducing fuel costs and generator noise.

	SiteGrid 30000	SiteGrid 45000
Inverter Charger Model	3 x Victron Quattro 48V 10000VA	3 X Victron Quattro 48V 15000VA
Transfer switch	3 x 100A	3 x 100A
AC Input	380 - 415VAC 3PH	
DC voltage range	38 – 66 V	
Output Voltage	400VAC ± 2% Frequency: 50Hz ± 0.1% (1)	
Cont. output at 25 °C	27,000W	36,000W
Cont. output at 40 °C	24,000W	30,000W
Peak power	60,000W	75,000W
Outlets (Standard)	1 x 63A 3PH and 3 x 63A 1PH	
Operating temp. range	-20 to +50°C (fan assisted cooling)	
<b>MONITORING &amp; CONTROL</b>		
	Victron VRM + Optional Energy Manement Unit	
<b>BATTERIES</b>		
Type / Quantity	2V x 48	2V x 48
Cyclic Life (50% dod)	2000	
Type	Thin Plate Pure Lead	
Capacity	70kWh (Usable 35kWh)	
<b>ENCLOSURE</b>		
Dimensions (mm)	1861x1007x1630 (WxDxH)	2100x1007x1630 (WxDxH)
Weight	4950kg	5200kg
Lifting options	Fork & Centre Point	

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.

