



SOLAR HYBRID POWER SOLUTIONS FOR OFF-GRID APPLICATIONS

**SUSTAINABLE
ENERGY WHERE
AND WHEN
YOU NEED IT**



SCAN ME

WHY USE SOLGEN?

Still relying on costly, outdated diesel generators to power your worksite? Time to harness the power of the sun...

With SolGen Solar hybrid power solutions for off-grid applications you can start to enjoy the benefits of sustainable renewable energy while still providing all the energy needed to power your site.

WHAT MAKES SOLGEN GENERATORS UNIQUE?



MAXIMISED SAVINGS

Achieve annual savings of £40,000 while reducing CO2 emissions by 150 tonnes



INDUSTRY LEADING

Largest solar array available on a mobile unit



MAXIMUM CAPACITY

Largest lithium battery bank & inverter power capacity in a mobile unit



IMPROVED SECURITY

High security with lowering capabilities to deter theft



OPTIMISED SOLAR GAIN

Solar panel pitch and direction adjusted automatically so solar gain is optimised with the changing angle of the sun



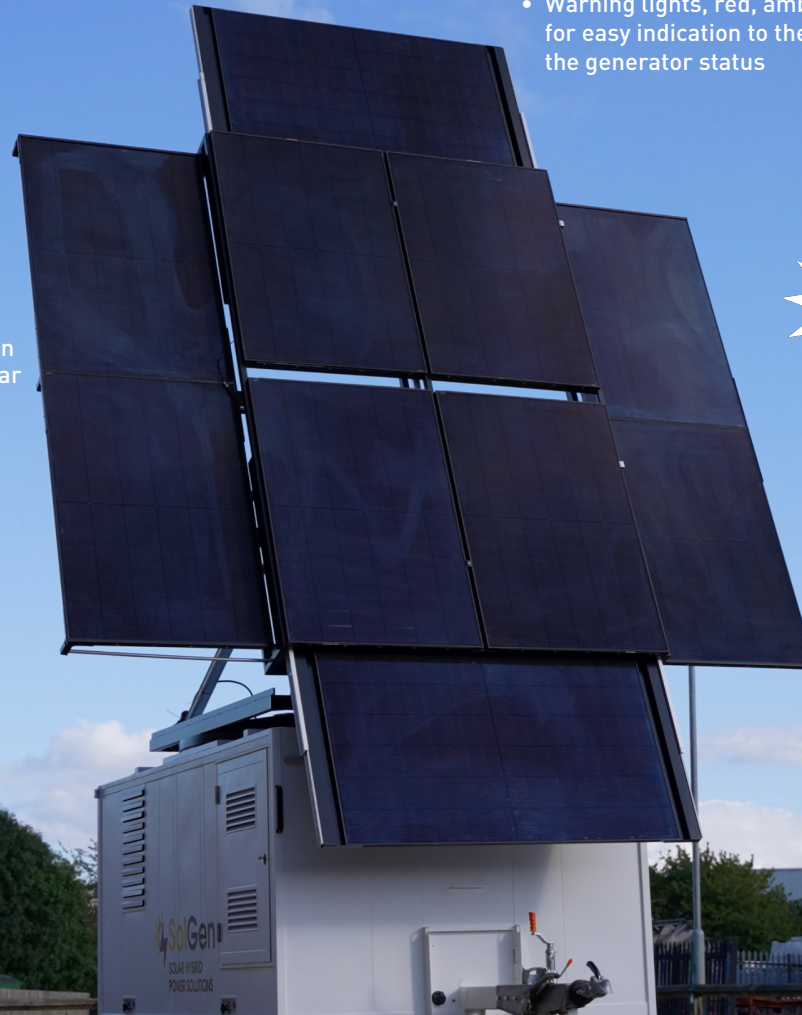
EXTENDED WARRANTY

Stainless steel components with a 25-year anti-corrosion warranty

FUNCTIONALITY

Full remote monitoring and reporting system to give the user/hirer information such as power used, generator power, solar power, fuel level, GPS location, battery levels, all at current time and historical log.

- Ability to report fuel saving and carbon reduction data for ESG and other sustainability reports
- Load shedding – each output socket will have a priority, lowest priority loses power first when total power demand exceeds available power
- Display screen with notification for low fuel, trips etc
- Warning lights, red, amber & green for easy indication to the user on the generator status
- Fuel theft alarm
- Options to add in external solar array and external power input
- Generator can be fuelled by HVO biofuel or diesel
- Fuels are interchangeable
- Optional EV charging and tool charging lockers in static unit



KEY FEATURES



SOLAR POWERED



LOWER CO2 EMISSIONS



GENERATOR RUN TIME REDUCED



CUT FUEL COSTS BY UP TO £1000 P/W*



LITHIUM BATTERY



MINIMISE NOISE ON SITE



*Compared to a 45kVA generator running 24/7 at 6L/hr



 **SUNFLOWER TECHNOLOGY**

HARVEST MAXIMUM SOLAR ENERGY WITH UNIQUE 'SUNFLOWER' TRACKING

- ⚡ Ground-breaking patented technology exclusive only to SolGen units
- ⚡ SolGen units can achieve up to 4X the solar gain compared to standard solar hybrid systems*
- ⚡ 360° rotational solar tracking and bifacial panel technology helps boost solar gain by 70%

*Compared to a static monofacial array, solar gain may vary based on location, conditions, and setup. Performance figures are based on optimal conditions.



TECH SPEC: MOBILE UNITS



SIZE: 60	
PRIME RATING	60kVA
GENERATOR SIZE	30kVA (24kW)
FUEL CONSUMPTION	7L per Hour at Full Load
FUEL TANK CAPACITY	200 litres
SOLAR PANELS	4600W
UNIQUE SOLAR TRACKING	Solar panel angle adjustable to optimise power gain
TYPICAL SOLAR GAIN (1)	45kWh
BATTERY TYPE	Lithium - LIFE PO4
BATTERY PACK	8 x 5.12kWh = 41kWh
INVERTERS	3x10kVA
OUTPUT POWER SOCKETS (2)	6 x 32A as standard
SILENT POWER MAXIMUM	24kW
PEAK POWER (INC GENERATOR BOOST)	48kW
TIME AT PEAK POWER (3)	1:22 hrs
CHARGE TIME (20% TO 80%)	1:07 hrs
EXTERNAL POWER INPUT (4)	16A

DIMENSIONS (TRANSPORT)	4950 x 2300 x 2600 (LxWxH)
DIMENSIONS (DEPLOYED) (5)	6000 x 4200 x 5200 (LxWxH)
WEIGHT	3500kg
REMOTE CONTROLS	Timers for all sockets. Generator quiet hour settings.
TELEMETRY FEATURES	Remote monitoring of location, fuel level, power usage, solar power gain, battery state of charge (SOC)
REPORTING	Customisable reports available on power usage, solar power gain, CO2 saved.
SECURITY FEATURES	Unit lowers to the ground making road wheels invisible. Towing connections under lockable flap. High security access doors to battery and generator compartments. Fuel theft alarm.
TRANSPORT	Road towable
LIFTING FEATURES	Low level lifting eyes (Optional)

Note 1	Based on a typical UK summer day, daily total of 5000Wh/m2 solar irradiation.
Note 2	All output sockets can be configured to suit customers' requirements.
Note 3	Starting with 100% battery charge down to 20%.
Note 4	Can be increased to suit customers requirements.
Note 5	Height and width depend on solar panel angle setting.

SOLARTRACK™ 24/7 REMOTE MONITORING & REPORTING

Access information about your SolGen solar hybrid generator 24/7 using our remote online VRM system.

REMOTE ENERGY

- Logs energy production from solar panels
- Records energy consumption
- Monitors battery levels
- Real time and historical data available
- Location and weather information
- User friendly graphics
- Easily generate fuel, CO2, servicing and cost savings reports for ESG, Net Zero and other targets with bespoke software tools

GENERATOR TELEMETRY

- Remote fuel level monitoring and low fuel alarm
- Remote generator control inc switch on/off; load management optimised quiet hours and scheduled runs
- Remote fault reporting, diagnostics and troubleshooting





**CONTACT US TODAY TO LEARN HOW SOLGEN CAN
POWER YOUR OFF-GRID APPLICATION
SUSTAINABLY AND COST-EFFECTIVELY**

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