Mobile Off-Grid SAGES Systems

v 1.0

MOBILE OFF-GRID SAGES SYSTEMS

At PowiDian we have developed an innovative 100% green energy station – known as the Smart Autonomous Green Energy System - SAGES. Our solution is fully modular and flexible – so we can always adapt to our customer's needs.

For standard mobile requirements we have developed a series of standard solutions to make it easier for you to choose the right solution. All our standard mobile systems incorporates our SAGES concept – and thus remote management and supervision are included as a standard feature. All our mobile systems are fully independent and dimensioned to fulfil the energy requirement for a predefined period of time or continuously when fuel is provided (biodiesel, methanol or gas). Focus has been put on making our solutions easily movable – in order to be able to easily provide the power needed whenever and wherever the need exists – for a short or a long time.

Version	Power output	Configuration	Typical End-User Price	Typical applications
Bronze	100W @ -48 V DC min. 48 hours operation without sun	SAGES + 7 m2 Solar Panels + Li Ion batteries	From 43.000 €	Remote sensors Isolated weather station
Silver	200 W @ 220 V AC min. 48 hours operation without sun or fuel	SAGES + 7 m2 Solar Panels + BioDiesel Generator + Li Ion batteries	From 48.000 €	Temporary NGO activities Military Operations
Gold	500 W @ 220 V AC continuously supply (fuel required)	SAGES + 14 m2 Solar Panels + Gas Fuel Cell +Li Ion batteries	From 71.000 €	Emergency/Police Services at events/natural catastrophes
Platinum	750 W @ -48 V DC continuously supply (fuel required)	SAGES +14 m2 Solar Panels + Methanol Fuel Cell + Li Ion batteries	From 78.000 €	Remote radar Mobile Base Stations

Any combination of sun panels, generators, fuel cells and batteries are possibly as well as it's possibly to connect the mobile system directly to an unstable grid – in order to secure a stable power supply for the users and benefit from green energy at the same time.

The standard configurations are based on implementation in Tunis, Tunisia with the specific weather conditions for this area. The geographical locations determines the size of the solar panels.

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