

Back-up On-Grid SAGES Systems



v 1.0

BACK-UP ON-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 back-up requirements we have developed a series of standard solutions to make it easier for you to choose the right solution. All our standard back-up systems incorporates our SAGES concept – and thus remote management and supervision are included as a standard feature. All our back-up systems are always connected directly to the primary energy source (electro generator, grid or other) and our back-up systems will automatically become active in case of interruption in the primary power supply.

Version	Power output	Configuration	Typical End-User Price	Typical applications
Bronze	1 kW @ -48 V DC For 24 hours	SAGES + Li Ion batteries	From 34.000 €	Telecom sites Remote sensors
Silver	2 kW @ 220 V AC For 72 hours	SAGES + Methanol Fuel Cell + Li Ion batteries	From 57.000 €	Boarder control Remote radar station
Gold	3 kW @ 220 V AC For 72 hours	SAGES + Li Ion batteries + Electrolyser + Hydrogen storage	From 100.000 €	Field medical centre Field research centre
Platinum	6 kW @ -48 V DC and 220 V AC For 192 hours	SAGES + Li Ion batteries + Electrolyser + Hydrogen storage	From 138.000 €	Police station Airports Harbours

Our back-up systems can always later on be extended to include renewable energy sources like i.e. sun and wind – if the needs change in the future. This way the production from the green energy sources – can naturally be used for consumption – once the required amount of energy is stored in either batteries and/or hydrogen. By doing so the green energy will not only be used for back-up purpose but it becomes part of the primary supply of energy and thus contributes to cost savings. This makes our back-up solution unique and future proofed!



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