

## Sma energy management system

With the Power Plant Manager, you are already optimally equipped for the energy market of tomorrow. The Power Plant Manager ensures that your power plant runs efficiently and also helps stabilize the utility grid. As a turnkey solution, it is available with other system components such as the SMA Hybrid Controller. You can see all your data at a glance anytime with the freeSunny Portal monitoring platform.

The redundancy function of the Power Plant Manager (PPM) provides extra protection to power plant operation. Two identical PPMs (featuring integrated hybrid controllers) are installed with license activation to create a redundancy function. The devices monitor each other's operation simultaneously, with one PPM in active control mode and the other in redundant standby mode.

If there are problems with the active controller, the redundant controller automatically and smoothly takes control of the power plant in an instant. This is followed by an automatic reboot attempt to restore the redundant operating state of the PPM. If this does not work due to a physical defect, for example, a corresponding service message is generated, which lets the PV system manager know of any defective components.

The SMA Redundancy Connector can be connected to a redundant PPM system to link and process digital input and output signals. This ensures the safe connection of electrical signals and allows for automatic switchover to the active control system.

ennexOS (Energy Next Operating System) from SMA is a cross-sector platform for holistic and smart energy management. It interlinks various energy sectors, such as heating, climate control, electricity and vehicles, within the PV system.



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Contact us for free full report

Web: <https://hollanddutchtours.nl/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

