

FREESUN EMS

ENERGY MANAGEMENT SYSTEM

Power Electronics Energy Management System is the best solution for self-consumption applications due to its advanced, reliable and precise control algorithms. The Power Electronics EMS is designed to match energy production and consumption. It provides smart and flexible solutions for self-consumption applications such as zero grid injection systems.

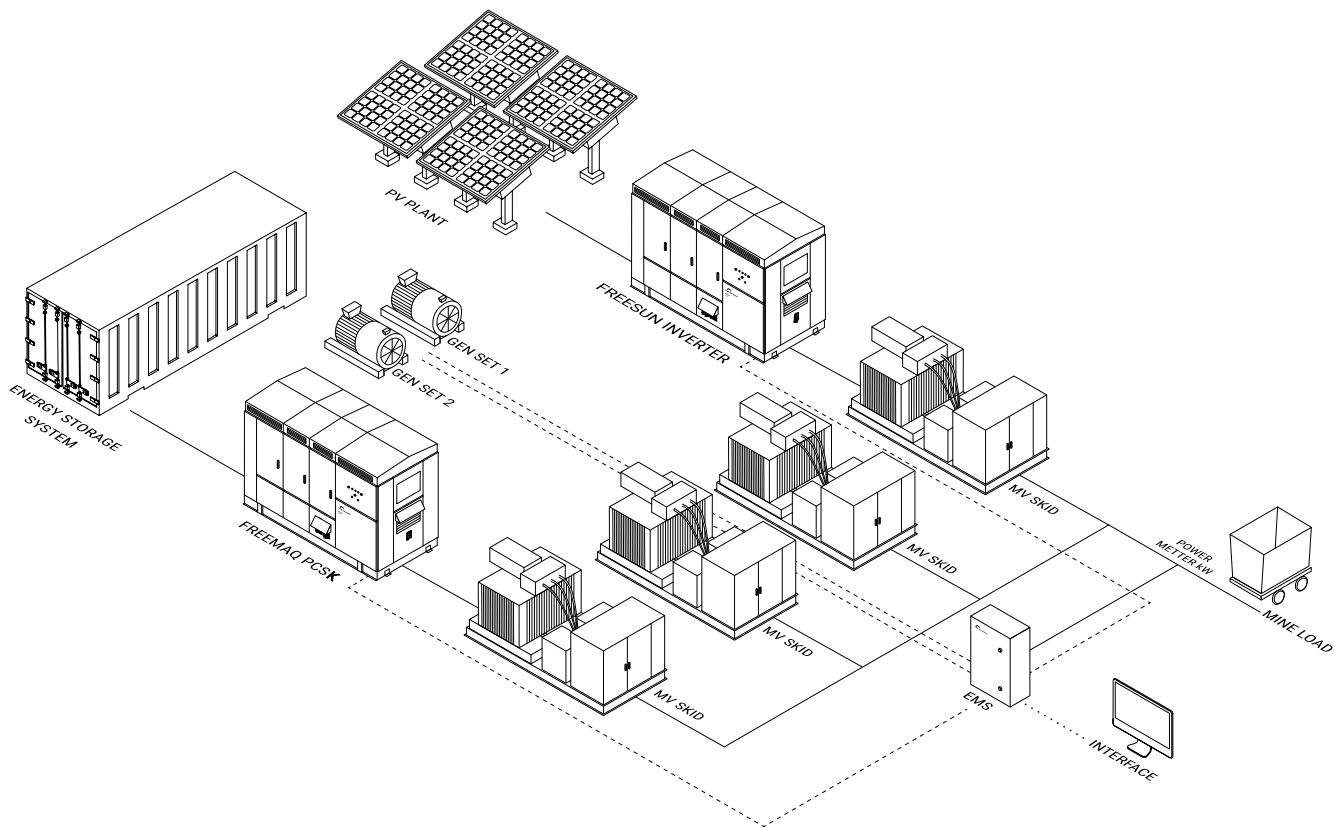


TECHNICAL CHARACTERISTICS

GENERAL DATA	Dimensions (WxDxH) mm	809 x 600 x 300
	Weight (kg) 10	10
	Mounting system Wall mounted	Wall mounted
	Compatible inverters	Freesun inverters, Freemaq PCS and Freemaq statcoms
	Power supply 250W	250W
I/O and COMMUNICATIONS^[1]	2 x RS232/RS422/RS485 Port	3 wires (GND, A, B), Modbus RTU
	4 x USB Port	PC connectable using a master.Modbus configurator (ModScan or similar). Reserved for TS.
	2 x Ethernet Port (RJ45)	Modbus TCP/IP, Profinet, EtherCAT, Ethernet I/P
	1 x DVI	Digital Video output interface
	Digital/Analog I/O	Optional
ENVIRONMENTAL CONDITIONS	Operation temperature	0~50°C (32°~122°F)
	Storage temperature	-20~80°C (-4°~176°F)
	Humidity	5-95% non-condensing
	Degree of protection	IP42
CERTIFICATIONS	CE	
OTHERS	Web interface for local and remote monitoring	

[1] Communication ports can be customised depending on the plant design without prior notice.

EMS SELF-CONSUMPTION APPLICATION



- PPC main governor and interface of the system.
- Multiple GenSets and storage equipment control.
- Centralized dynamic grid support at POI.
- Power shaping - Enhanced broad implementation of decentralized PV.
- Power smoothing – Enable ramp rate control.

