Permanent Magnet Generator

"E-iF PMG" permanent magnet generator has excitation field provided by permanent magnet instead of coil as DC supply, without slip ring and brush. It is major source of electric energy, used to convert mechanic power out of steam turbine, gas turbine, hydro turbine, wind turbines, etc. It's mostly made rotor internal and stator external; rotor external and stator internal and coreless Permanent Magnet Generator can also be customized.

Inner Rotor Permanent Magnet Generator Technical Specification

3 phase, direct driven, brushless, inner rotor Permanent Magnet Generator Mounting Type: Horizontal/Vertical

Composition:

Inner Rotor	Permanent Magnet NbFeB	
	Axis	
Outer Stator	Copper Coil	
	Yoke	
	Slot	
	Tooth	
	Insulation Section	
Insulation Grade	F	
Generator Configuration	Star Connection, 3 phase AC output	

About Material

Shaft Material	Carbon Round Steel with quenching and tempering	
	Treatment	
Shell Material	Casting	
Winding Temperature Class	150℃	
Permanent Magnet Material	Rare Earth NdFeB	
Permanent Magnet Material Temperature Class	150℃	
Core	High Grade Cold Rolling Silicon Sheet	
Protection Grade	IP54	

Main Specification Sheet

Model No	Rated Power Range	Rated Speed
PM-IR-300W~100KW	300W~100KW	400/300//200/100rpm
PM-IR-100KW~500KW	100KW~500KW	100/80/60/50rpm
PM-IR-1MW	1MW	200rpm
PM-IR-1.5MW	1.5MW	200rpm
PM-IR-2MW	2M	200rpm
PM-IR-3.6MW	3.6MW	350rpm

^{***}Rated Speed and Rated Voltage at different Rated Power can be customized. ***

PRODUCT RANGE IN MULTI-ENERGY







2KW100rpm

7KW200rpm

10KW55rpm





20KW200rpm

50KW75rpm

100KW3000rpm for cogeneration







1.5MW17.4rpm PMG



2MW15.75rpm PMG



3.6MW350rpm PMG

Micro Grid System

Micro Grid System is composed of <u>micro power, storage system, control devices and load</u>. It is separate unit from grid, with functions on self-control, self-protection and self-management; It can operate separately and can also be grid-connected; It can be a power supply or a load to outer grid.

Micro Power

It includes solar power, wind turbine and other types of fluctuated and discontinuous renewable energies. Most are small capacity distributed energy.

Storage System

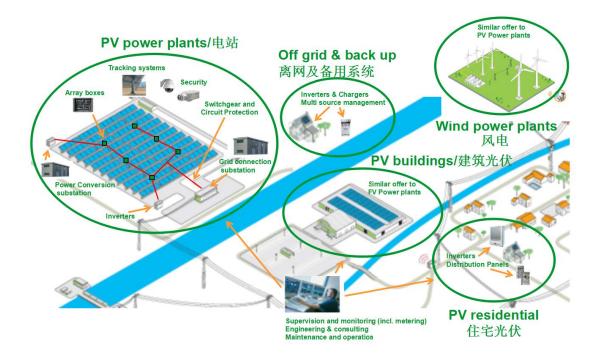
Divided into Energy Type (such as, lead acid battery, Lithium battery and liquid flow battery) who improves utilization efficiency of renewable energy and Power Type (such as, flywheel, super capacitor) who ensures stability at accidents of micro grid connecting to grid/disconnecting, power supply or load switching operation.

Control Devices

Control devices are the hardware and software equipment to make sure micro grid system operates stably, provide relay protection, dispatch, etc.

Load

Divided into Critical load and secondary load; intelligent load, adjustable and non-adjustable load.



Core Business with Products & Services of Micro Grid System

- 1, Develop, manufacture and sell Multi-in-one Power System: small capacity wind turbine (horizontal: 1-300KW; vertical: 1-10KW), solar power system, storage system, control device;
- 2, Develop, OEM manufacture and sell big capacity Control System;
- 3, Develop and sell control system software;
- 4, Consultant, design, and management for projects on Micro Grid System and Hybrid Power Plant.

