Article No. 420104

「SOLAR-VALUE」

500KW PV-Diesel-Storage Integrated Off-grid System

Introduction

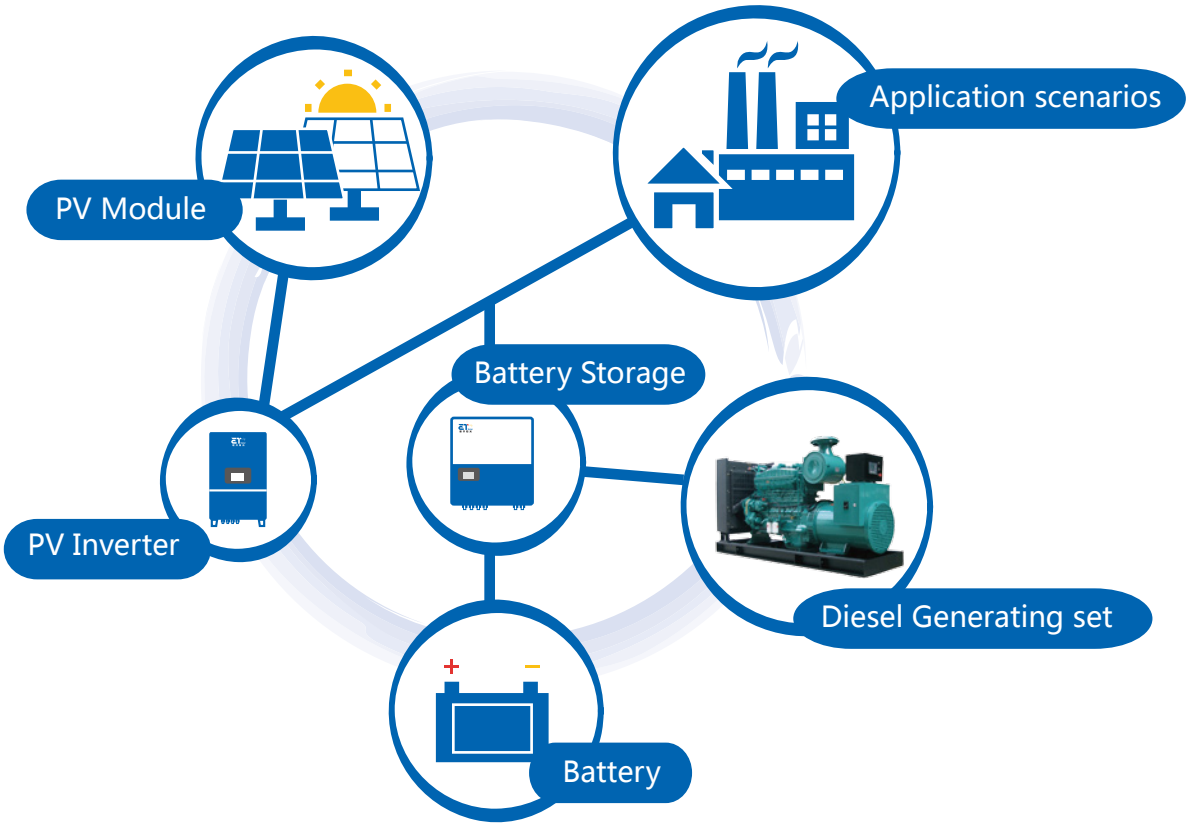
1250kw PV +3750kWh Lithium Battery +500kw Diesel Engine: The PV capacity can meet the requirement of filling the lithium battery every day, and the lithium battery can working at full load of 100kw for 6h.The power shortage is supplemented by the diesel engine.This system is suitable for areas without electric supply or power insecure areas, and provides the most economical power supply solutions for users by combining photovoltaic and diesel power generation with high-density energy storage battery.

Application scenarios

- Utility failure areas
- Sunny areas
- Oil price sensitive users
- Areas with environmental protection requirements containing noise

Characters

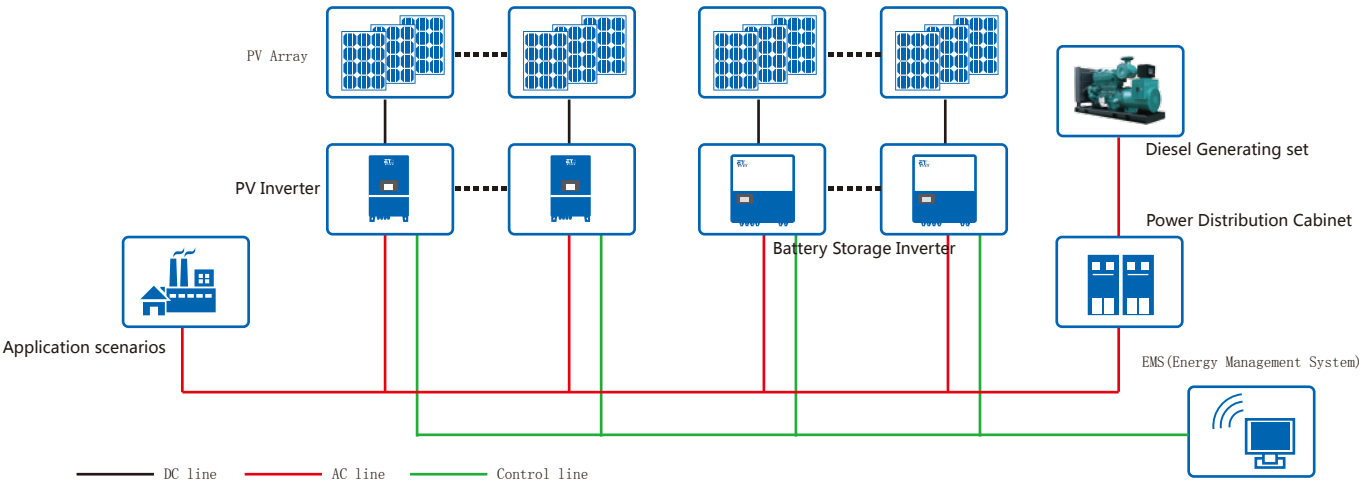
- Technology of high efficient PV module
- A convenient inverter can be installed completely by hand
- Modular design, excellent expansibility
- EMS(Energy Management System)& Remote monitoring system



Parameters

Microgrid Module	Components	Number	Specification
Photovoltaic	PV Module (1250KW)	3788 pieces	ET-P672330WW
	PV Inverter	13 unit	SUNGROWSG80KTL
	PV Mounts	1set	Match 500KW PV station, depending on the environment and latitude of the installation area
	PV DV Cable	20000m	PV 1-f 4mm²
	Low Voltage AC Cabel	Depending on the situation	ZR-YJV
	Ingredients	1set	MC4 connector&RV SV
Battery Storage	Battery	1set	100kw/3750kWh Energy storage solution of Chunlan
	Battery Storage Inverter	1 unit	SUNGROWSC500
Energy Management	EMS(Energy Management System)	1 unit	EMS100-500K
System Costs	Packing expense(PV Modules)	1set	Supporting
	Traffic Expense		Depending on the customer's location and transportation
Diesel Generator Module	Diesel Generating set	1set	500KW , 380V , 50Hz
	Switching Cabinet	1 unit	500KW

PV-Diesel-Storage Integrated Off-grid System Frame Diagram



Diesel&PV Complementary System Frame Diagram