

Explosion-proof Low Frequency Off Grid Inverter



- Powerful Protection - More Safe To Use

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Application Scope

1. Zone 1 & 2 Hazardous locations, such as: underground coal mines, wineries, chemical plants, etc.
2. Environment with IIA、IIB、IIC types of explosive gas, such as: Flour mills, Aluminum powder plant, Metal mine factory, Graphite factory.etc.
3. Indoor (IP54) or outdoor(IP65)

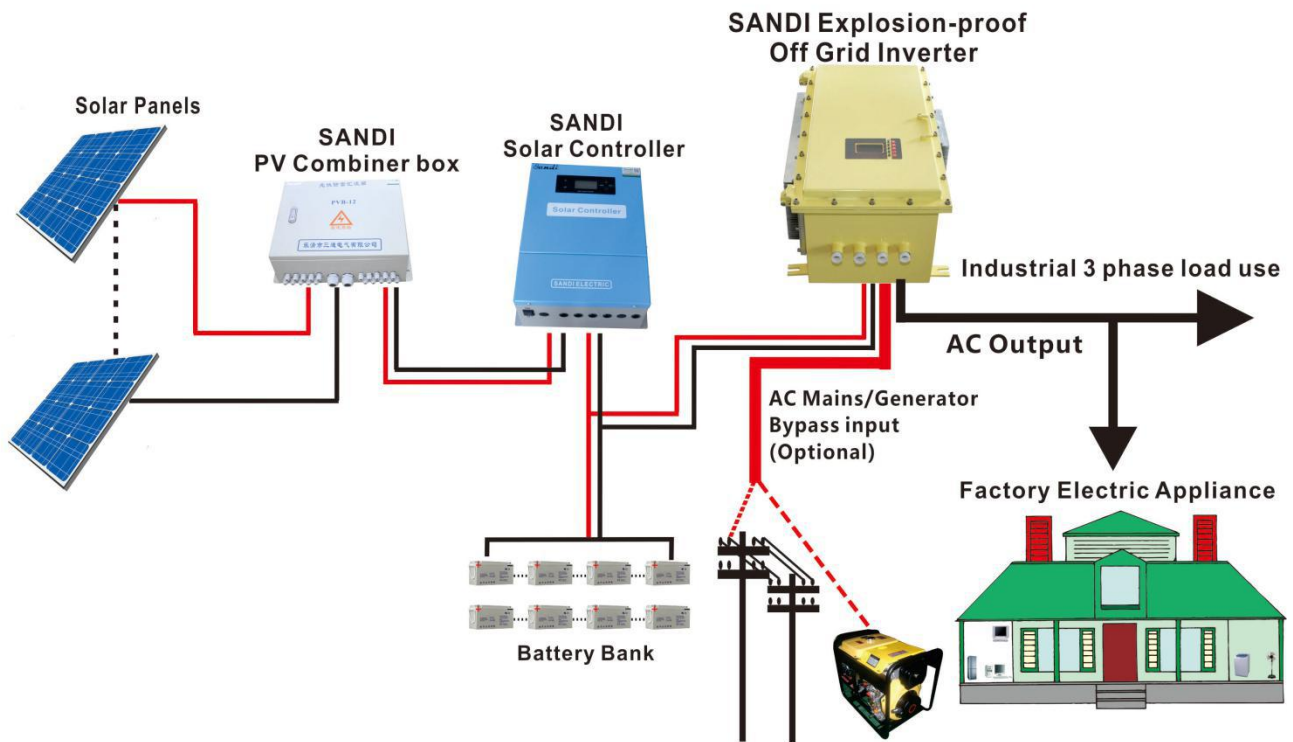
Features

1. 4.0 thick steel plate seamless welding, surface spray, beautiful appearance.
2. Explosion-proof standard is EXdIIBT4.
3. Built-in low frequency isolation transformer, strong ability of anti-interference.
4. Widespread application: DC to AC, Single phase to Three phase, High voltage to Low voltage or Low voltage to High voltage.
5. Pure sine wave output, quick instant response speed
6. Excellent performance of taking load, it can take a variety of loads, such as: halide lamps, motors, welding machines, precision machine tools, fluorescent lamps, energy-saving lamps, etc.
7. With over-current, over load, under voltage, over voltage, short circuit, over heating and other protection.
8. With good performance of anti-dust, waterproof, shockproof.
9. Can be 7* 24 hours continuously working
10. Can be customized according to customers' requirements.

System Diagram



SANDI Off Grid Solar Power System



Technical Parameters

Model (SDP-)		3KW-10KW	12KW-20KW	25KW-100KW
Isolation mode		Low Frequency Transformer		
Enclosure		EXdIIBT4		
DC Input	Rated voltage (Vdc)	48V/96V/120V/192V/240V/360V/480V/750V (Optional)		
AC Input	Rated voltage (Vac)	Single or Split or Three phase (Optional)		
AC Output	Output waveform	Pure Sine Wave		
	Rated Output Voltage(Vac)	120V/220V/380V/415V/440V/480VAC±5% (Optional)		
	Frequency	50Hz or 60Hz		
	Power Factor (PF)	0.99		
	Overload Ability	150%, 5 seconds		
	Efficiency	>93%		
	Waveform distortion rate (THD)	<3% (Linear load)		
	Dynamic Response (0 to 100% load)	5%, ≤50ms		
	Display	LCD		
	Running mode	Working continuously		
	Electrical insulation properties	2000Vac, 1 Minute		
Protection Function	Protection	Input reverse polarity, under voltage, over voltage, output over-current, short circuit, overheating etc.		
	Cooling method	Fan-cooled		
	Short-circuit protection	No automatic recovery, need to restart the machine		
Working environment	Noise (1 meter)	≤50dB		
	Degree of protection	IP54(Indoor) or IP65(Outdoor)		
	Working Altitude (m)	≤2000		
	Working temperature	-25~+55°C		
	Relative humidity	0~90%, non-condensing		
Mechanical dimension	Cabinet type	Rack-mounted type	Cabinet stand type	Cabinet stand type
	Depth* Width * Height	380*480*780mm	380*520*1080mm	650*750*1100mm

***Above power only for reference, could be custom made to user specifications.**