

LGE-Series

Recommended High-Frequency Pure Sine Wave Inverter
Full-Rated Power Output Inverter



LGE 3080

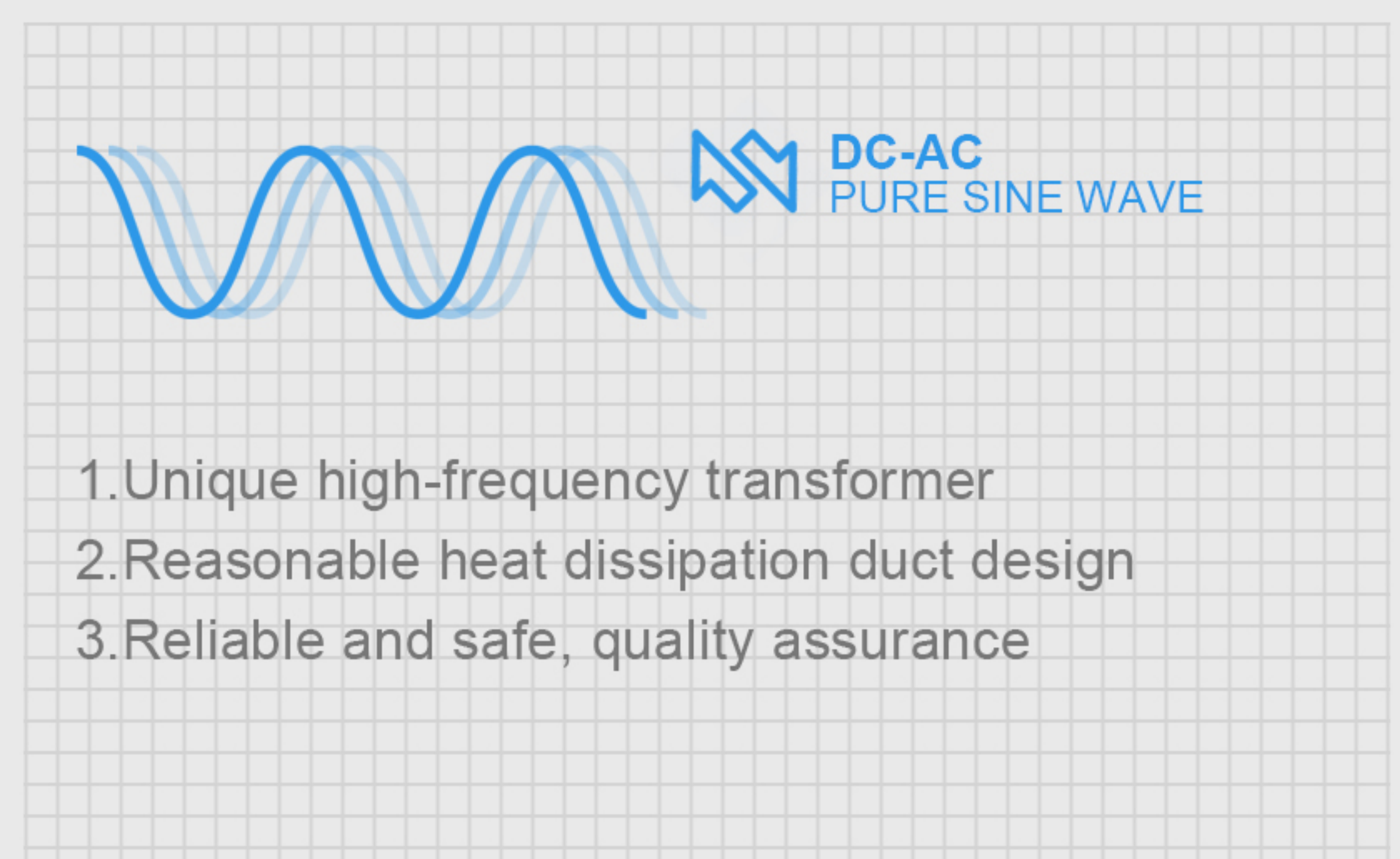
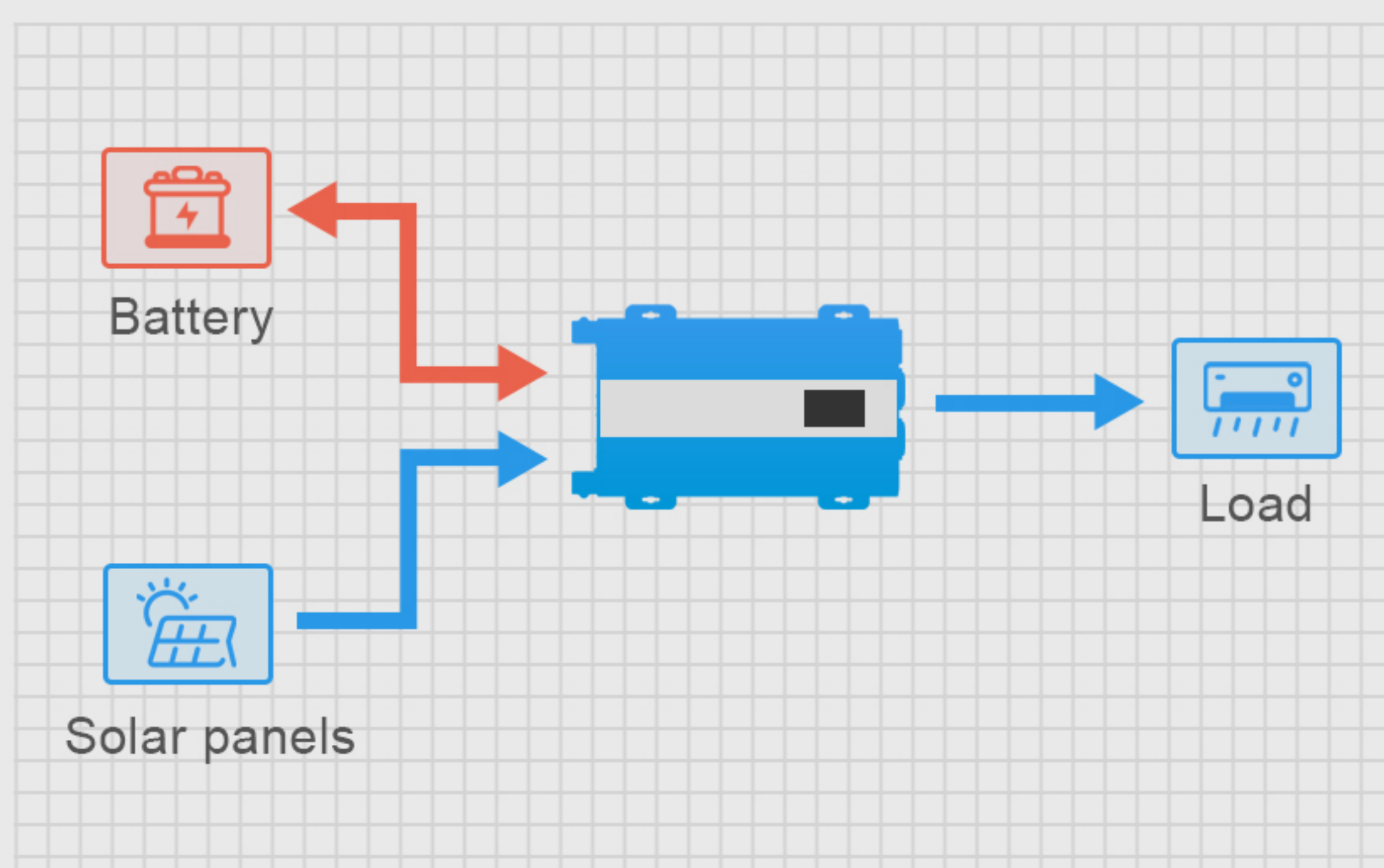
404*259*85mm

LGE 2080

364*237*85mm

Product Description

The design concept is based on the principle of AC power generators. By using software-based SPWM integral calculus algorithm and LC resonant modulation technology, it achieves the optimal output of pure sine wave AC power for loads, with high compatibility and load-bearing capacity as its design features.





Night Mode

Keep the lowest fan duty/speed, Provide the quiet environment while the system operating.

Excellent heat dissipation design

Excellent structural design enables the inverter to operate continuously and stably



Continuous and stable

Sine wave inverter
Continuous and stable output



Working Temp

Working temperature between -30 °C and 60 °C
Suitable for the vast majority of scenarios

Wireless Control

Distance: 50M (barrier-free)



MODELNO.		LGE-1080W			LGE-1580W		
OUTPUT	Rated Power (Typ.)	1080W			1580W		
	Maximum Output Power (1 Min)	>1080W~1240W (100%~115%)			>1580W~1800W (100%~115%)		
	Surge Power (Max.1 Sec)	> 2000W			> 3000W		
	AC Voltage	100/ 110/ 115/ 120/ 220/ 230/ 240VAC					
	Frequency	50/60 Hz ± 0.5%					
	Waveform	Pure sine wave (THD<3%)					
	AC Regulation (Typ.)	±5%					
	LED Indicator	Input voltage level, output load level and faulty status					
INPUT	DC Voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC
	Voltage Range	10.5~16.5VDC	21.0~33.0VDC	42.0~66.0VDC	10.5~16.5VDC	21.0~33.0VDC	42.0~66.0VDC
	No Load Current	0.6A	0.4A	0.25A	0.8A	0.5A	0.25A
	Efficiency (80% .)	91%	92%	93%	91%	92%	93%
	Remote Standby Mode	≤ 0.08W	≤ 0.08W	≤ 0.08W	≤ 0.08W	≤ 0.08W	≤ 0.08W
PROTEC-TION	Input Under - Voltage Protection	10.0±0.3VDC	20.0±0.5VDC	41.0±1.0VDC	10.0±0.3VDC	20.0±0.5VDC	41.0±1.0VDC
	Input Under - Voltage Recovery	12.5±0.3VDC	25.0±0.5VDC	50.0±1.0VDC	12.5±0.3VDC	25.0±0.5VDC	50.0±1.0VDC
	Input Over - Voltage Protection	16.5±1.0VDC	33.0±1.0VDC	63.0±1.0VDC	16.5±1.0VDC	33.0±1.0VDC	63.0±1.0VDC
	Input Over - Voltage Recovery	15.0±0.5VDC	30.0±0.5VDC	58.0±1.0VDC	15.0±0.5VDC	30.0±0.5VDC	58.0±1.0VDC
	Output Overload	1080W ≥ 115%			1580W ≥ 115%		
		1 minute automatic shutdown output, automatic lock, restart to recover					
	Output Short Circuit	Output short circuit protection 3s shutdown lock, restart to recover					
	Over Temperature	85°C± 5°C					
DC Input Reverse Polarity	By internal fuse open						
SAFETY& EMC	Withstand Voltage	Bat I/P-AC O/P:3.0KVAC AC O/P -FG:1.5KVAC					
	Isolation Resistance	Bat I/P-AC O/P, Bat I/P - FG, AC O/P-FG:100M ohms / 500VDC/ 25°C/70%RH					
	EMC Emission	Compliance to FCC classA ,E-Mark EACTPTC 020 , EN55032 classA, 72/245/ CEE,95/54/CE					
	EMC Immunity	Compliance to EAC TPTC 020 , EN61000-4-2,3,4,5,6,8,11					
ENVIRON-MENT	Working Temp	-30 °C~60 °C					
	Working Humidity	20~90% RH					
	Storage Temp, Humidity	-30~ +70 °C/ -22~+158 F, 10~95% RH non-condensing					
OTHERS	Dimension	312*185*70mm			312*185*70mm		
	Packing	≈ 2.3KG			≈ 2.5KG		

Note1 - Normal Condition: Vin=12.5V / 25V / 50V Vo=100 / 110 / 115 / 120 VAC 80% Full load (PF=1.0)

Note2 - Normal Condition: Vin=12.5V / 25V / 50V Vo=200 / 220 / 230 / 240 VAC 80% Full load (PF=1.0)

Note3 - Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

■ Protective Function

- 1) Low-voltage alarm: The buzzersounds 2 times with 1 Hz gap.
- 2) Low voltage protection: The buzzercontinuously sounds 3 times alarm, with1 Hzgaps.
- 3) Low-voltage recovery: the low-voltage rise automatically restores the output, and the buzzersounds 3 times alarm is cancelled.
- 4) Overvoltage protection: The buzzersounds 4 times, with 1 Hz gap.
- 5) Overvoltage recovery: The voltage is reduced automatically to restore the output, and the buzzersounds 4 times alarm is cancelled.
- 6) Thermal protection: 85 ° ± 5 °, when overheat protection buzzersounds 5 times alarm,with 1 Hz gap.
- 7) Overload protection: overload100%~115% 60s Turn off , overload 116%~150% 3s Turn off, overload151%~200% 1s Turn off, overload >200%, 200ms Turn off, The buzzer blared.
- 8) Short circuit protection: Output short circuit protection 3s shutdown lock.



RV



Camping use



Boat



Farm

Pure sine wave inverter

