

# 1.2kW / 2.2kW Off-grid Inverter

## Features



- Pure sine wave solar Inverter
- Output power factor-1
- Selectable high power charging current;
- Wide DC Input voltage range for home appliances and personal computers.
- Configurable AC/Solar input priority via LCD setting;
- Compatible to AC mains or generator power.
- Auto restart while AC is recovering.
- Overload and short circuit protection.
- Smart battery charger designed for optimized battery performance.
- Cold start function.
- Optional anti-dusk kit.

## Advantages



**IP20**  
2Y warranty

**IGBT**  
INFINEON

**MOSFET**  
Toshiba

## Product Parameters

Model		SAGE ESF-1.2KW	SAGE ESF-2.2KW
Ratedpower		1200VA/1200W	2200VA/2200W
INPUT	Voltage	230VAC	230VAC
	Selectable Voltage Range	170-280VAC (For Personal Computersh; 90-280 VAC (For Home Appliances	170-280VAC (For Personal Computersh 90-280 VAC (For Home Appliances
	Frequency Range	50Hz/60 Hz (Auto sensing)	50Hz/60 Hz (Auto sensing)
OUTPUT	ACVoltage Regulation (Batt. Mode)	230VAC±5%	230VAC±5%
	Surge Power	2000VA	4000VA
	Efficiency (Peak)	904%-93%	904%-93%
	Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)	10 ms (For Personal Computers); 20 ms (For Home Appliances)
	Waveform	Pure sine wave	Pure sine wave
BATTERY	Battery Voltage	12VDC	24VDC
	Floating Charge Voltage	13.5VDC	27VDC
	Overcharge Protection	16VDC	31VDC
SOLAR CHARGER & AC CHARGER	Solar Charger type	MPPT	MPPT
	Maximum PV Array Open Circuit Voltage	102VDC	102VDC
	Maximum PV Array Power	700W	1400W
	MPPT Range @ Operating Voltage	17-80VDC	30-80VDC
	Maximum Solar Charge Current	50A	50A
	Maximum AC Charge Current	20A	20A
PHYSICAL	Maximum Charge Current	60A	60A
	Dimension, Dx Wx H (mm)	103x225x320	103x225x320
	Net Weight (kgs))	4.4	5
ENVIRONMENT	Communication Interface	USB/RS232	USB/RS232
	Humidity	5%to 95% Relative Humidt (Non-condensing)	5%to 95% Relative Humidt (Non-condensing)
	Operatig Temperature	-10°C to 50°C	-10°C to 50°C
	Storage Temperature	-15°C to 60°C	-15°C to 60°C
	Protectionclass	IP20	IP20
	Warranty	2: years (standard)	2: years (standard)
	CE crification	EN 61000-6-3,EN 61000-6-1,EN 61000-6-2.EN 61000-6-4, EN 61000-3-11,EN 61000-3-12,EN 62109-1.EN 62109-2	