

HYBRID OFF GRID INVERTER

INTRODUCTION

This is a multi-function inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable acceptable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Features

- Pure sine wave inverter
- Configurable input voltage range for home appliances and personal computers via LCD setting
- Configurable battery charging current based on applications via LCD setting
- Configurable AC/Solar Charger priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload/Over temperature/short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function



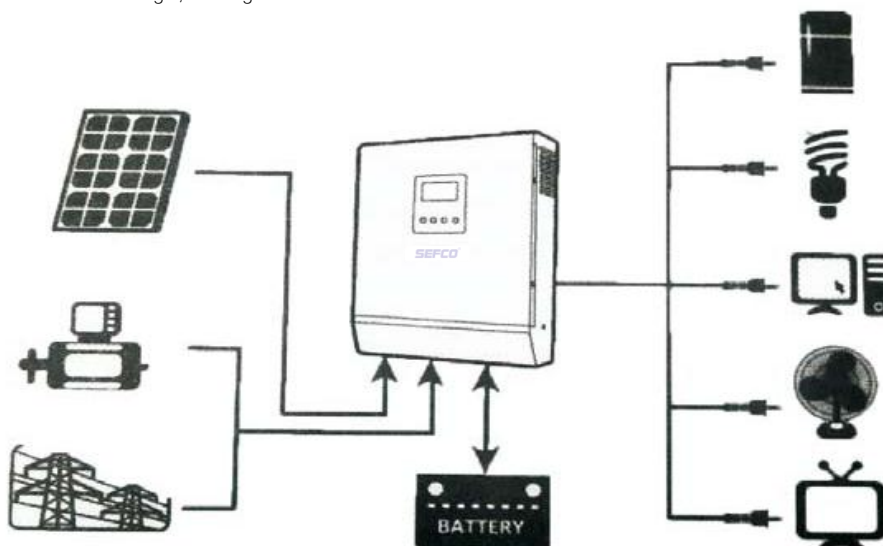
Basic System Architecture

The following illustration shows basic application for this inverter/charger. It also includes following devices to have a complete running system:

- Generator or Utility.
- PV modules(option)

Consult with your system integrator for other possible system architectures depending on your requirements.

This inverter can power all kinds of appliances in home or office environment, including motor-type appliances such as tube light, fan, refrigerator and air conditioner.



Technical Data

MODEL	S-TF 1KVA	S-TF 2KVA	S-TF 3KVA	S-TF 4KVA	S-TF 5KVA
Input					
Capacity (VA)	1000VA	2000VA	3000VA	4000VA	5000VA
Voltage (DC)	12/24V	12/24/48V	24/48V	24/48V	24/48V
Nominal Voltage	220VAC/110VAC				
Voltage Range	154-265VAC/77-135VAC				
Frequency	50-60Hz Auto sensing				
Output					
Watt	800W	1600W	2400W	3200W	4000W
Voltage	220VAC/110VAC				
Frequency	50/80Hz				
Waveform	Pure sinewave				
Transfer time(AC to DC)	<8 ms				
Transfer time(DC to AC)	<8ms				
Output voltage regulation	10%rms				
Bypass Mode	Yes				
Saver Mode	Yes				
Efficiency	>98%				
Protection					
Input Protection	Circuit Breaker				
Output Protection	Circuit Breaker				
Battery					
Battery Type	AGM-Deep Cycle,GEL				
	Up to 500Ah				
Charging current	20/10A	30/15/7A	30/15 A	40/20A	48/24A
Low Level disconnect (Selectable)	(10V or 10.5 V) x N N means the number of batteries in series				
LCD Indicator status	Input AC,Output AC				
	Battery DC,Output Load1				
	Alarm .Fault				
	Battery Charge Level				
	Output Frequency				
LED Indicator status	AC Line In:Green				
	Inverter:Green				
	Charging:Yetkw				
	Alarm:Red				
Battery low alarm	battery light discharge 11.5V*N; battery load discharge 11.5V*N@load<20%; 11V*N@load>50% / 10.5V*N @load>50%;				
Battery low recovery	battery light discharge 12V*N; battery load discharge 12V*N @ load <20%; 11,5V*N@load>50% / 11V*N@load>50%;				
DC low voltage shutdown	battery light discharge 11 V*N; battery load discharge 11 V*N@load<20%; 10,5V*N@load>50% / 10V' N@load>50%;				
DC high voltage alarm and fault	16V*N				
DC high voltage recovery	15V*N				
Optional					

Maximum PV array power	12V:800W 24V: 1600W 48V:3200W
MPPT/PWM input voltage range	12V:MPPT15-150VDC(or PWM15VDC-30VDC) 24V:MPPT30-150VDC(or PWM30VDC-60VDC) 48V:MPPT60-150VDC(or PWM60VDC-105V DC)
Maximum PV array open circuit voltage	12V:MPPT150VDC(or PWM30VDC) 24V:MPPT150VDC(or PWM60VDC) 48V:MPPT150VDC(or PWM105VDC)
Maximum solar charging current	60A
Alarm	
Low battery alarm	The buzzer beeps once a second and stops after one minute.
Overload alarm	The buzzer keeps beeping and stops attar one minute.
Fault	The buzzer keeps beeping and stops attar one minute.
Environment	
Temperature	0-40
Humidity	CO-95 X. Non condensing
Accoustic Noise(db)	>55dB
Weight (kg)	20 kg.

Ordering information					
Model No.	S-TF-1KVA	S-TF2KVA	S-TF-3KVA	S-TF-4KVA	S-TF-5KVA
Part No.	608300	608301	608302	608303	608304
Packing unit.	1 pc(s).				

Contact us

You can find the address of your local sales organisation on the home page



www.sefco.co.th



www.sefco23.com



LINE



Facebook



WeChat



WhatsApp

SEFCO - Tel. : +66 (0) 3811 9780-2

SEFCO - Fax. : +66 (0) 38 119 783