

SUN GB Series

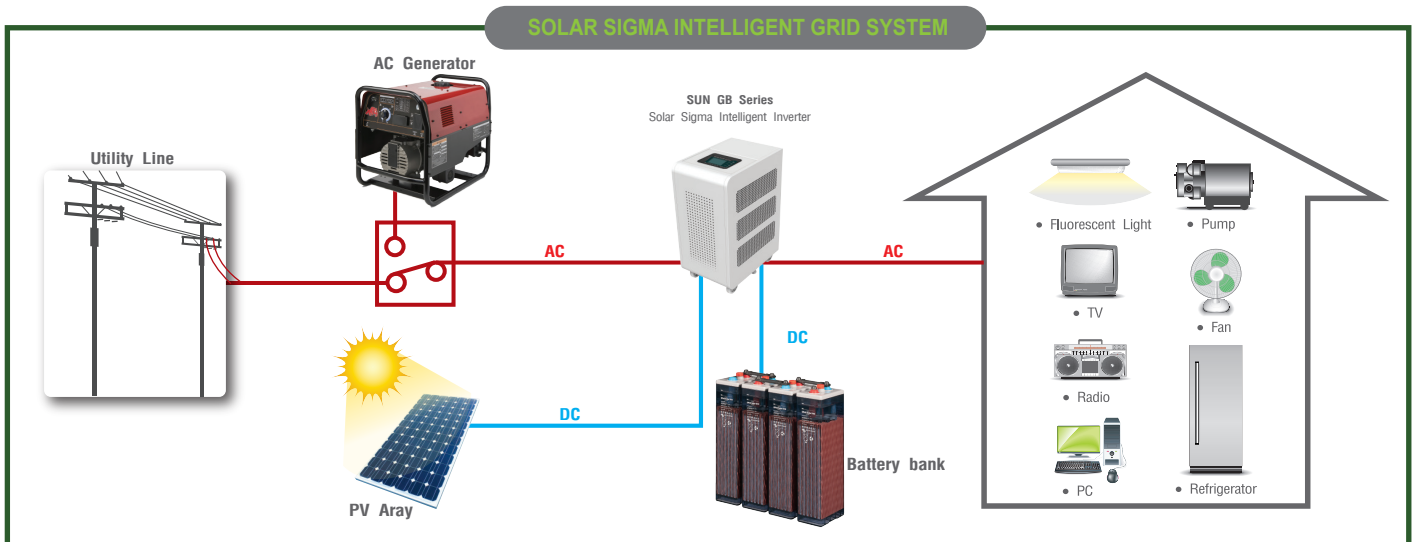
Single Phase Smart Grid Connected Interactive Inverter With MPPT Solar Controller

Features:

- Single phase DSP bidirectional inverter Technology Built in Output Isolate Transformer
- Include PWM with MPPT charge controller
- Provide uninterrupted backup power to load when utility grid line is not available.
- Smart battery charging for small battery capacity
- Feeding excess energy back to grid line
- Low harmonic distortion (less than 3%)
- High efficiency 96.5% Max
- User settable operation
 1. Excess PV energy back feed to utility line
 2. No PV energy back feed to utility line, PV energy only supply to loads
- Special design for using at high grid fluctuation area
- Battery temperature compensation (option)
- ISO 9001 and ISO 14001 certified factory



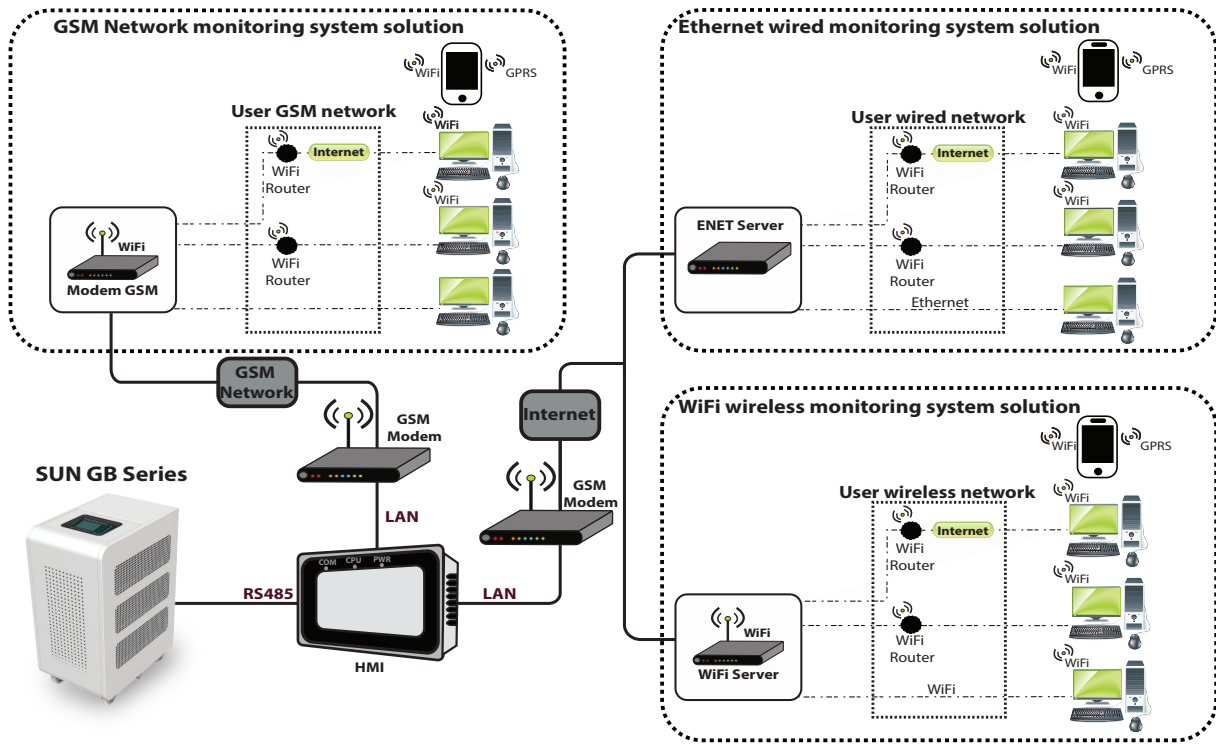
SUN GB Series is a single phase multi-function energy storage inverter, combining functions of inverter, On Grid, MPPT Solar charger controller and AC battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/Solar charger priority and acceptable input voltage based on different applications.



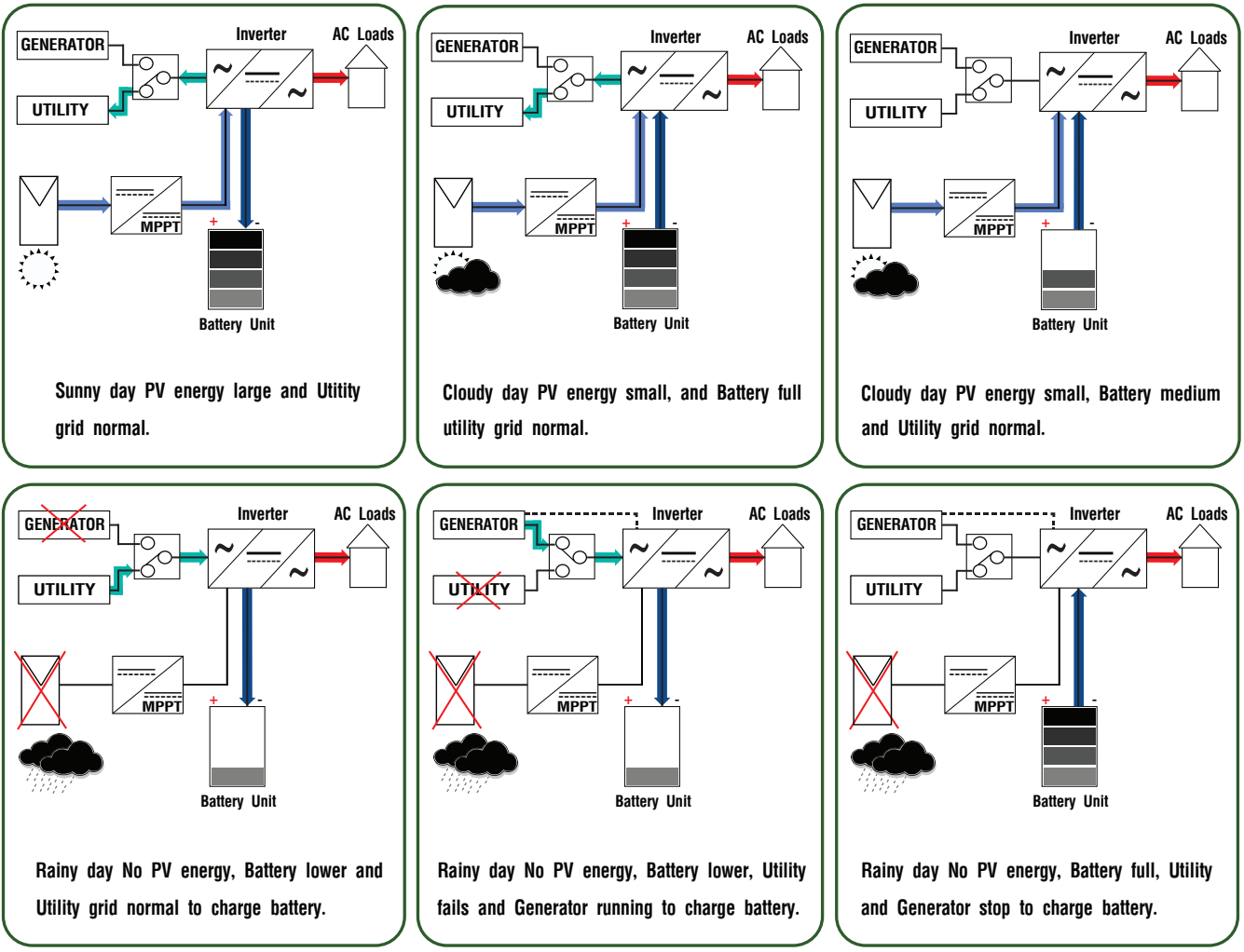
1. PV energy feed back to utility	PV energy is large feed to utility		PV energy is small, PV&Battery energy feed to utility
2. PV energy supply to loads	PV large energy supply to loads & Charge battery	PV small energy & Battery supply to loads	No PV Battery energy supply to loads
3. Charger mode	PV&Utility Charge to batteries		
4. Bypass mode	Utility supply to loads		
5. PV energy to loads	PV energy supply to loads	PV&Battery energy supply to loads	Battery energy supply to loads



Information Communication Technology



Operation Mode



SUN GB Series

Single Phase Smart Grid Connected Interactive
Inverter With MPPT Solar Controller

MODEL		GB50	GB110
POWER RATING	PV Input(Wp)	7.2KWp Max	12KWp Max
	AC Output(W)	6kW	10KW
SOLAR CONTROLLER & AC CHARGER	PV Max.Open Circuit Voltage (Voc)	145V	
	PV MPPT Voltage Range	64-145Vdc	
	Max PV Charging Current (A)	180A(60Ax3)	
	Max AC Charging Current (A)	180A	
BATTERY	Normal Voltage(Vdc)	48Vdc	
	Voltage Range(Vdc)	40 - 62 Vdc	
	Max.Battery discharge(A)	120Ax3	
	Low Voltage Alarm (Vdc)	42Vdc	
	High Voltage Alarm (Vdc)	60Vdc	
AC OUTPUT	Output Voltage (Vac)	220/230/240Vac (L-N)	
	Output Regulation	+/-1%	
	Phase	1 Phase 2Wire + PE	
	Output Frequency (Hz)	50/60Hz +/- 0.1%	
	Output Current (A) / THDi	27A / <5%	45.45A / <5%
	Total Harmonic Distortion(THDv)	Grid Tied/Grid charging mode <3%, Backup mode <3%	
	Voltage Response time (0 – 100%)	20ms	
	Power Factor	Grid Tied & Grid charger >0.99	
	Overload Capability	110% for 30minutes, 125% for 1 minute, 150% for 30 seconds	
	Maximum Surge Current	200% for 10 seconds	
	Grid Tied/Backup Transfer Time	2-4ms	
	Output Wave Form	Pure Sine Wave	
	Standby Power Consumption	<2W	
PROTECTION	System Protection	AC/DC Under/Over voltage, Over discharge, Overload, Over current, Over Temperature,SPD and Short circuit	
EFFICIENCY	Max.Inverter Efficiency	≥95%	
	Max.Charger Efficiency	≥98%	
AC INPUT FORM GRID LINE OR GENERATOR	Maximum AC Current (A)	80A	
	AC Voltage (Vac)	220/230/240 +/-10% (L-N)	
	Frequency(Hz)	50/60 Hz +/-3%	
DISPLAY	LED indication	System operation, indication of charger and discharger, indication of fault	
	LCD display	Output voltage, Output current,Frequency, Grid voltage, Grid current, Grid status, PV Input/ current/power status, Voltage battery/current, Load power,VA/W, Chart of capacity and Inverter code	
ALARM	System Alarm	Low battery, Overload, High Temperature and Short circuit	
COOLING		Automatic cooling fan	
INTERFACE	Communication and Software	RS232/ RS485 / CAN BUS (Software monitoring optional)	
PHYSICAL	Inverter Type	Tower	
	Dimension W x H x D (mm.)	400*840*555	
	Weight(kg)	100	130
ENVIRONMENT	Operation Temperature	0 - 50 °C	
	Humidity	0 - 100% (Non - condensing)	
	Environmental Protection Rating	Indoor IP20 (IP65/IP68 optional)	
	Ambient humidity	0 - 100% relative humidity (non - condensing)	
	Altitude	<3000m	

*Product specification are subject to change without further notice.

Chuphotic.BRO-19.INV SUN GB.Rev1.00/2018

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