

SUN GBT Series

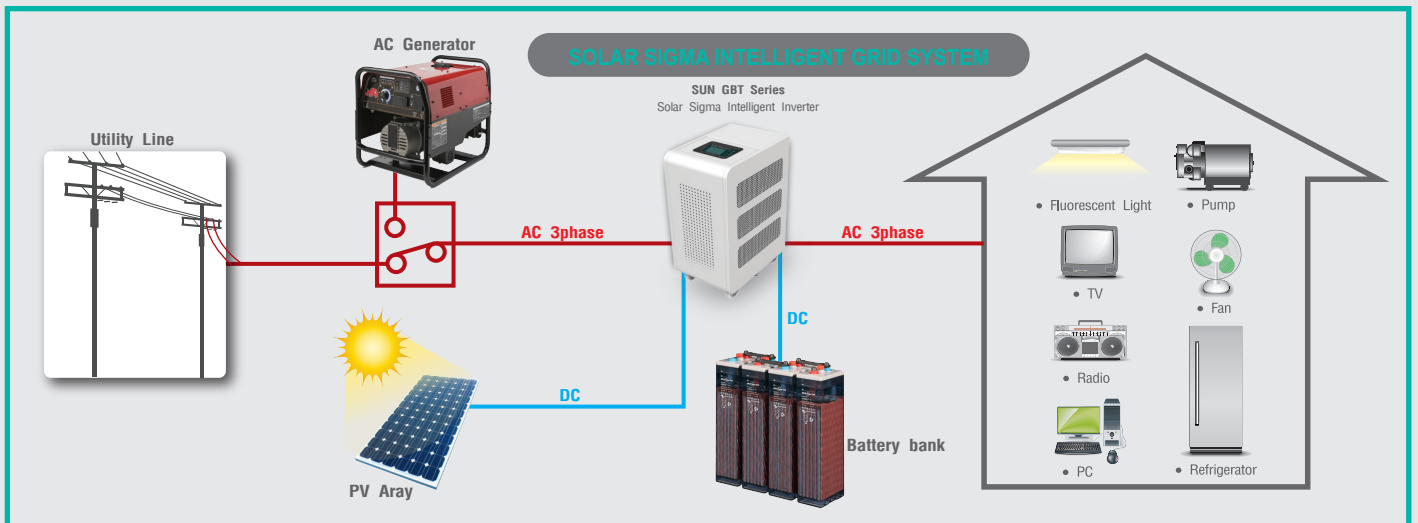
Smart Grid Connect Interactive Inverter

Features:

- Three phase interactive inverter
- 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 >93%
- 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 GBT Series is a Three 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



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MODEL		GBT0548	GBT1048	GBT1248
POWER RATING	PV Input(Wp)	7.2kWp	12kWp	14kWp
	AC Output(W)	5kW	10kW	12kW
SOLAR CONTROLLER & AC CHARGER	PV Max.Open Circuit Voltage (Voc)	145Vdc		
	PV MPPT Voltage Range (Vmp)	64-145Vdc		
	Max PV Charging Current (A)	3MPPTx45A	3MPPTx60A	3MPPTx60A
	Max AC Charging Current (A)	42A per phase	60A per phase	80A per phase
BATTERY	Normal Voltage(Vdc)	48Vdc		
	Voltage Range(Vdc)	40 - 62 Vdc		
	Max.Battery discharge(A)	125A	200A	250A
	Low Voltage Alarm (Vdc)	42Vdc		
	High Voltage Alarm (Vdc)	60Vdc		
AC OUTPUT	Output Voltage (Vac)	220/230/240Vac (L-N), 380/400/415(L-L)		
	Output Regulation	+/-1%		
	Phase	3 Phase 4Wire + PE		
	Output Frequency (Hz)	50/60Hz +/- 0.1%		
	Output Current (A)	9.1A per phase	13A per phase	17.4A per phase
	Total Harmonic Distortion(THDv)	Grid Tied/Grid charging mode <3%, Backup mode <2%		
	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	Sine wave		
	Standby Power Consumption	<2W		
PROTECTION	System Protection	Over voltage, Under voltage, Overload, Over current, Over Temperature and Short circuit		
EFFICIENCY	Max.Inverter Efficiency	≥93%		
	Max.Charger Efficiency	≥98%		
AC INPUT FORM GRID LINE OR GENERATOR	Maximum AC Current (A)	18A per phase	26A per phase	34.8A per phase
	AC Voltage (Vac)	220/230/240 +/-10% (L-N), 380/400/415(L-L)		
	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, Grid voltage, Grid current, Frequency, PV voltage, Voltage of storage battery, Load power, Chart of capacity		
ALARM	System Alarm	Battery voltage, Low battery, Overload, High Temperature and Short circuit		
COOLING		Automatic cooling fan		
INTERFACE		RS485 / CAN BUS		
PHYSICAL	Inverter Type	Tower		
	Dimension W x H x D (mm.)	391x555x836		
	Weight(kg)	100	129	145.5
ENVIRONMENT	Operation Temperature	0 ~ 50 °C		
	Humidity	0 ~ 95% (Non - condensing)		
	Environmental Protection Rating	Indoor IP20 (IP65/IP68 optional)		
	Ambient humidity	0 ~ 90% relative humidity (non - condensing)		
	Altitude	<3000m		

*Product specification are subject to change without further notice.

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บริษัท ชูปัทิก จำกัด

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