

SUN SIS-Series

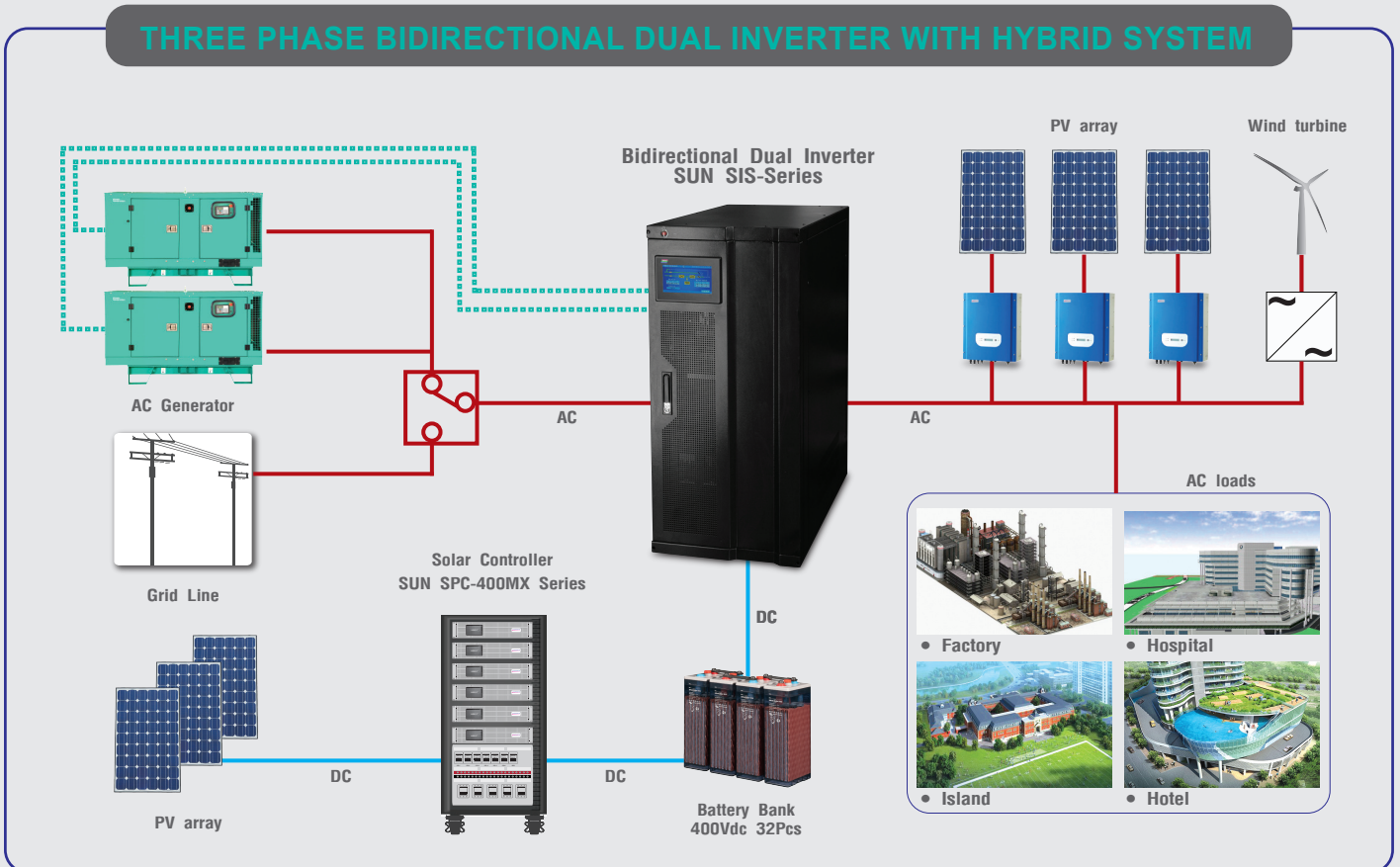
THREE PHASE BIDIRECTIONAL DUAL INVERTER WITH HYBRID SYSTEM

Features:

- Advanced DSP full digital control technology.
- Three phase bidirectional double conversion inverter.
- Built in output isolated transformer.
- Pure sine wave THD less than 3%(Linear load)
- High efficiency inverter >95%
- Advanced IGBT with high reliability
- Fast speed automatic transfer time
- Perfect protection function for over/under voltage, overload, short circuit and over temperature
- Automatic low battery shutdown for protect battery.
- Fans cooling automatic speed control.
- Reverse battery polarity protection.
- HMI 7 inch LCD display friendly.
- Fast charging to provide quick and safe for charge battery.
- Function parallel redundant N+1(option)
- Intelligent battery management IBM(option)
- Data communication through RS232/RS485/Modbus and dry contact of computer with monitoring software of operation status.
- C-tick compliance for EMC and LVD
- ISO 9001:2008 and ISO14001:2004 certified



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| Model | | SIS-10 | SIS-15 | SIS-20 | SIS-35 | SIS-40 | SIS-50 | SIS-60 | SIS-75 | SIS-100 | |
|------------------------------|---------------------------|--|-----------|-----------|-----------|----------------|------------|------------|------------|-------------|--|
| SMART GRID SYSTEM | Application | Smart Grid System for Mini Plant | | | | | | | | | |
| | Control & Technology | Smart DSP control Double Conversion IGBT Technology | | | | | | | | | |
| HYBRID SYSTEM | Inverter | 10kW | 15kW | 20kW | 35kW | 40kW | 50kW | 60kW | 75kW | 100kW | |
| | Battery Storage | 100-200Ah | 150-300Ah | 200-400Ah | 250-500Ah | 400-800Ah | 450-1000Ah | 500-1000Ah | 750-1500Ah | 1000-2000Ah | |
| | PV System | 10-12kWp | 15-17kWp | 20-25kWp | 35-40kWp | 40-45kWp | 50-60kWp | 60-70kWp | 75-90kWp | 100-120kWp | |
| | Generator | 10kW | 15kW | 20kW | 35kW | 40kW | 50kW | 60kW | 75kW | 100kW | |
| | Electrical Grid | 10kVA/15A | 15kVA/25A | 20kVA/30A | 35kVA/55A | 40kVA/60A | 50kVA/75A | 60kVA/91A | 75kVA/115A | 100kVA/152A | |
| BATTERY VOLTAGE | Normal Voltage | 400 Vdc | | | | | | | | | |
| | Voltage Range | 368-480 Vdc | | | | | | | | | |
| | Max.AC Charging Current | 40A | 60A | 75A | 130A | 150A | 190A | 225A | 300A | 375A | |
| | Maximum Battery current | 40A | 60A | 75A | 130A | 150A | 190A | 225A | 300A | 375A | |
| IGBT CHARGER | Voltage charge | 400-480 Vdc | | | | | | | | | |
| | Charging Current (Max.) | 20A dc | 30A dc | 38A dc | 60A dc | 75A dc | 95A dc | 110A dc | 150A dc | 190A dc | |
| AC INPUT GRID LINE GENERATOR | Generator Power | 10kW | 15kW | 20kW | 35kW | 40kW | 50kW | 60kW | 75kW | 100kW | |
| | Voltage | L-L: 380/400/415 Vac, L-N: 220/230/240 Vac +/-10% | | | | | | | | | |
| | Phase | 3Phase 4Wire +PE | | | | | | | | | |
| | Frequency | 50/60 Hz ±3Hz | | | | | | | | | |
| | Function start/stop | Relay dry contact 10 A(ACC on and start) | | | | | | | | | |
| AC OUTPUT | Power Continuous(PF=1) | 10kW | 15kW | 20kW | 35kW | 40kW | 50kW | 60kW | 75kW | 100kW | |
| | Output Voltage | L-L: 380/400/415Vac, L-N: 220/230/240Vac 3Phase 4Wire+PE | | | | | | | | | |
| | Voltage Regulation | +/-3% steady load, <7% at 100% step load within 0.1sec | | | | | | | | | |
| | Frequency | 50/60 Hz ±0.1% | | | | | | | | | |
| | Total Harmonic Distortion | THD<3% (Linear load) | | | | | | | | | |
| | Wave Form | Pure sine wave | | | | | | | | | |
| | Overload Capability | >125% load for 10 min, 150% load for 30sec, >150% load for 10sec, 200% at 2 Sec. | | | | | | | | | |
| ISOLATION | Type | Galvanic isolation | | | | | | | | | |
| EFFICIENCY | Inverter Peak (Max.) | >94% | | | | >95% | | | | | |
| PROTECTION | System | Over current, Overload, Over temperature, Short circuit, Low battery voltage and Over battery voltage | | | | | | | | | |
| | IP level | IP20 | | | | | | | | | |
| INDICATOR | HMI LCD Display 7 inch | AC line, Inverter, overload and Fault Output voltage, Frequency, Output power, Battery voltage, Load, DC current, inverter status and Fault | | | | | | | | | |
| ALARM | Operation Alarm | Low battery, Overload, Over temperature and Fault | | | | | | | | | |
| COOLING | | Automatic cooling fans | | | | | | | | | |
| ENVIRONMENT | Temperature | 0 - 45°C | | | | | | | | | |
| | Relative Humidity | 0 - 95%(Non-condensing) | | | | | | | | | |
| DESIGE REGULATION | Tested According to | AS/NZ 3100:2002, EN61000-6-1/-3, IEC61683 (for efficiency test) | | | | | | | | | |
| PHYSICAL | Dimension WxDxH(mm.) | 480x900x1200 | | | | 1000x1000x2000 | | | | | |
| | Weight (kg) | 300 | 330 | 350 | 400 | 500 | 550 | 650 | 700 | 750 | |

*Continuous products development is our commitment. In that manner, the above specifications may be changed without prior notice.

Chuphotic.BRO.INV.SIS 17 Rev1.10/2016

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