

**The Power
Never Interrupt**



**LEADS THE WAY
YOU CAN TRUST**



**True
On line
Technology
with
STS
Bypass**

GV Powerguard™ true on line UPS is an extraordinary, advanced power supply system which producing sinwave on line uninterruptible power. Owing to the precision designation, GV Powerguard™ UPS can provide excellent, reliable AC current and widely used in the field of computer equipments, telecommunications, industry automation control in variety.

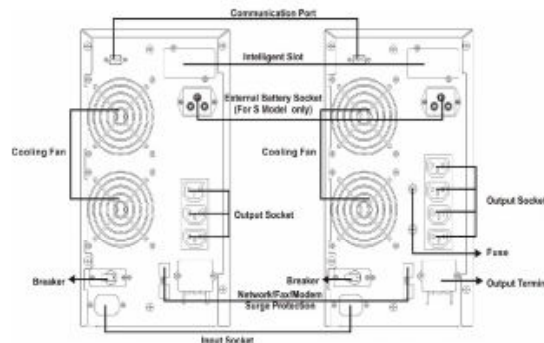
Due to its characteristics on designations that distinguishes from off line to supply uninterruptible power (zero break) even it is overloaded or invert fails the UPS will transfer it to by-pass status. If the elimination of overload, the UPS will be reverse to the inverter. The change will be completed within 4ms that makes you on uninterruptible power supply situation.

- Security System
- Telecommunication System
- Banking Automation System
- Precision Equipment
- Process Control
- Medical Equipment System
- Workstation & Network
- Transport System
- Personal Computer

Applications

Protection / Features

1. Keep steady power supply.
2. Components and loads can be detected immediately upon the power on.
3. The system can detect overloads, short circuit, lower voltage of battery or excessive temperature and shuts itself down to reach self protection.
4. Audible alarm sensor is equipped to warn the users.
5. Efficient protection of lightning & surge.
6. Brownout and overvoltage correction-automatically steps down higher voltage to keep safe output.
7. EMI/RFI filters can protect lone noise from causing error on data.
8. Sinwave output is a policy of assurance.
9. LED Control Panel.
10. RS-232 Serial Interface.

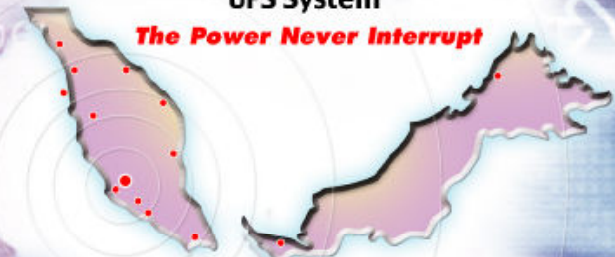


Back View with
Non CE - Certified

Back View with
CE - Certified

UPS General Information - Description

The Power Never Interrupt



**A consolidated reality...
...and national-wide known.
More than 3,000 installation sites!**

Agency or Reseller:



Group of Companies

www.gvtec.com



SNM Series

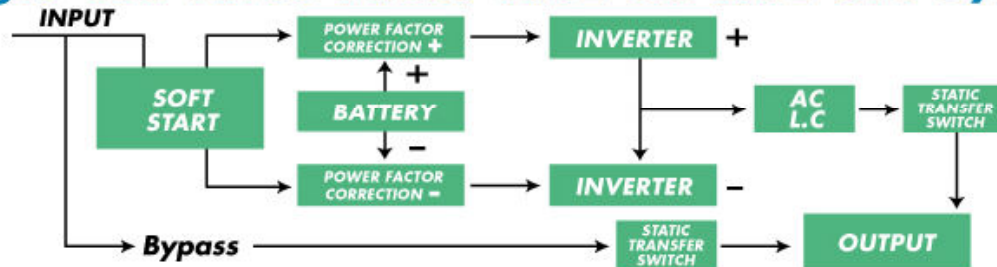
Specifications

SK1 Series

Model	SNM-1006	SNM-1010	SNM-1015	SNM-1020	SNM-1030
Power Rating	600VA	1KVA	1.5KVA	2KVA	3KVA
Input					
Voltage	80 to 138VAC, 160 to 276VAC				
Frequency	50Hz/60Hz ±5%				
Power Factor	0.99				
Output					
Voltage	110V, 120V, 220V, 230V, 240V				
Frequency	50Hz/60Hz [auto tracking]				
Voltage Regulation	+/-2%				
Distortion	<3%				
Waveform	Pure sinewave				
Overload Capacity	10 seconds at 110% load, 200ms at 150% load				
Crest Ratio	3:1				
Efficiency (full load)	85% (AC to AC)				
Battery					
Battery Voltage	24V/2pcs	36V/3pcs	48V/4pcs	72V/6pcs	96V/8pcs
Type	Maintenance free sealed lead-acid. 12V/7AH				
Back-up Time	10min. to 60min. [Upgradable]				
On-Line Operation	Zero break at input line loss and recovery				
Transfer Time	Uninterrupted transfer of 100% load from UPS Operation status				
Indicator	Load status, Battery status, UPS Operation status				
Audible Alarm	DC mode : every 4 seconds UPS Abnormal : continuing				
Noise Level	<45dBA (at 1 meter distance)				
Communication Interface	RS-232 and contact relay				
Environmental					
Temperature	0°C to 40°C				
Humidity	10% to 90% (Non-condensing)				
Mechanical					
Weight/net (kgs)	12.5	15	20	35	40
Dimension (WxDxH)cm	19x40x26	19x40x26	19x52x26	21x45x35	21x45x35

Model	SK1-1060	SK1-1080	SK1-1100/3100	SK1-3150	SK1-3200
Power Rating	6KVA	8KVA	10KVA	15KVA	20KVA
Input Characteristics					
Voltage	SINGLE PHASE 120VAC, 220VAC, 230VAC, 240VAC ±20% THREE PHASE 208VAC, 380VAC, 400VAC, 415VAC ±20%				
Output Characteristics					
Output Capacity	6KVA	8KVA	10KVA	15KVA	20KVA
Voltage Rating (SINGLE PHASE)	120VAC @ 60Hz±0.5% 220VAC @ 50Hz±0.5% 240VAC @ 50Hz±0.5%				
Voltage Regulation	LESS THAN 1% (STATIC)				
Waveform	Synchronized sinewave				
Distortion	Total harmonic Distortion <3%				
Load Power Factor	0.8 lag				
Efficiency (full load)	83%	90%	90%	92%	92%
Overload Capacity	150% r.m.s. for 1 minute				
Transient Response	Less than 3% for 100% load change				
Transfer Time	Uninterrupted transfer of 100% load from UPS to bypass & vice versa				
On-Line Operation	Zero break at input line loss and recovery				
Audible Noise Level	Less than 55 dBA (at 1 meter distance)				
Battery					
Type	Sealed, maintenance free lead acid				
Voltage	192V				
Back-up Time	10min. to 60min. [Upgradable]				
Recharge Time	10 hours to 90%				
Environmental					
Temperature	0°C to 40°C				
Humidity	10% to 90% (Non-condensing)				
Mechanical					
Weight/net (kgs)	128	128	230	175	175
Ext. Battery Bank (kgs)	Built-in	Built-in	Built-in	300	300
Dimension (WxDxH)cm	260x610x810	260x610x810	340x640x980	380x626x980	380x626x980

Single and Three Phase TRUE ON LINE UPS System



UPS Technical Specifications and Block Diagram



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