SYNDOME
ผู้นำด้านระบบสำรองไฟฟ้า

SD Series

True On-Line Sine Wave Uninterruptible Power Supply

True On-Line system with highest technology

Pure sine wave, very low distortion

High efficiency Uninterrupted and stable output

Fully reliable protection and alarm system

New modern design suitable for office use

Features

Highest Tecnology
- True On-Line Double Conversion System
- 20 KHz Full Bridge PWM Inverter
- Constant Voltage & Current Limit
- Static Transfer Switch (make before break)
- Sealed Lead Acid Maintenance Free Battery 3

Uninterrupted and Stable Output
- Pure Sine Wave, Very Low Distortion
- High Efficiency
- Stable Voltage Output
- Synchronize to Line

Full Reliable Protection and Alarm System
- Input and Output Protection
- Overload and Short Circuit Protection
- Battery Circuit Breaker Protection
- Battery and Load Level Indicators
- Manual Bypass Switch type make before break ①
- Interface Port for Unattended Shutdown (RS-232)

Suitable for Office Use
- Compact Size and Quiet Operation
- With Casters for Mobility

Safety Standard Design
- Low HF Feed-Back and Smooth Starting
- Surge Protection (IEC 1000-4-5, UL 1449)
- EMI/RFI Interface (VDE, EN 55022)
- Separated Battery Charger
- Isolated Battery Service
- Isolating Transformer ②
- Can Use with Generater
- Design and Manufactured Following IEC, EN
- Manufacture by ISO 9001 Certified Factory

* ①Option for Model SD-050-200
Standard for Model SD-300 Up
** ②Option All Model

Intelligent Power Management Module (IPM) Features

PowView®
Microsoft. Windows Compatible
Microsoft. Windows NT Compatible

Built-in 8 Bits Microprocessor Serial Interface Port for Various Management & Monitoring Software
- Via PowView Software
- Via Hyper Terminal
- Other (Asynchronous Communication

LED & LCD Display with Key Pad

Utility & UPS Status
- Input Voltage
- UPS Output Voltage & Frequency
- UPS Output Percentage of Load Usage
- Battery Status, Voltage & Temperature
- Automatic Battery Life Time Checking
- UPS Operation Mode
- UPS Information
- UPS Alarm Events with Help Messages

Safe Shutdown System
- Automatic System and UPS Shutdown
- Automatic System Reboot After Power Returns
- Admin./User Broadcast of Power Event

Environment & Power Mornitoring
- Real-time Graphical Display of Power
- Environment Monitoring
- Power Quality Data Log

Remote UPS Management
- Remote Management via a Workstation
- Customizing-Configurable UPS Parameters
- Schduled System Shutdown & Reboot
- Remote management via modem

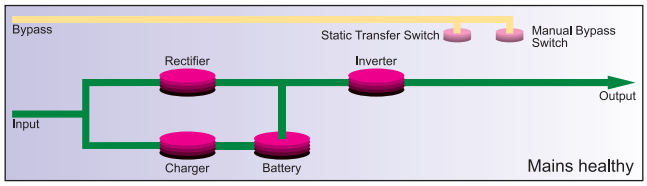
UPS Testing and Status
- Real-time Graphical Display of UPS Status
- Battery Remain Time
- Scheduled UPS Self-tests
- UPS Power Event Log

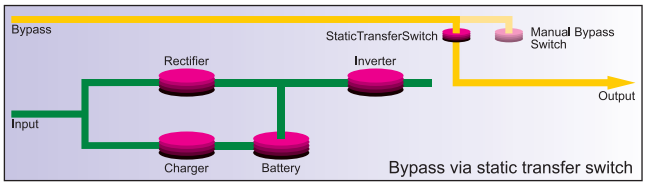
UPS Management & Diagnostic
- UPS Self Test
- Scheduled UPS Shutdown & Restore
- UPS Alarm Event Checking
- Automatic save application when windows shutdown by PowView
- Send e-mail when UPS alarm
- Send Short message (SMS) when UPS alarm (Option)

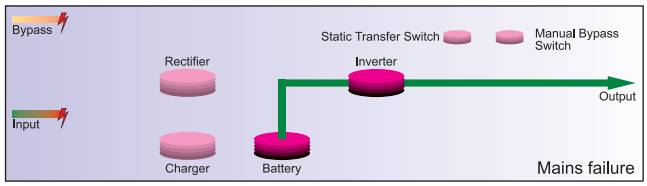
Requirements
- SYNDOME UPS SD-Series with Standard or Intelligent Signal
- Microsoft. Windows Compatible
  Microsoft. WindowsNT Compatible

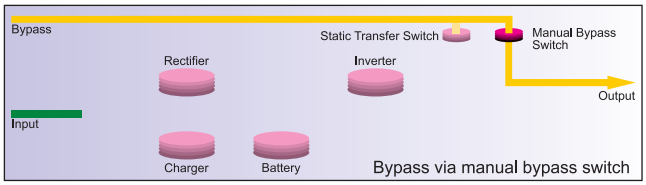
*①Option for Model SD-050-100
Standard for Model SD-200 Up

System Block Diagram









Technical Specifications

Model	SD-100	SD-150	SD-200	SD-300	SD-500	SD-600	SD-800
RatedPower	1KVA/800W	1.5KVA/1.2KW	2KVA/1.6KW	3KVA/2.4KW	5KVA/4.0KW	6KVA/4.8KW	8KVA/6.4KW
Input							
Voltage	220 Vac, single phase (L, N, G)						
Voltage tolerance	± 25 %						
Frequency	50 Hz ± 10 %						
Output							
Voltage	220 Vac, single phase (L, N, G)						
Voltage regulation	± 1% (Steady state), ± 4% (Dynamic state load step)						
Response time	<5 ms						
Frequency	50 Hz ± 0.1% (free running), 50 Hz ± 1% (Syn rang)						
Waveform	Sine wave						
Total harmonic distortion	<3 % at 100 % linear load, <5% at 100% non linear load						
Overload capacity	150 % for 30 seconds						
Total efficiency (AC to AC)	≥85 %						
Crest factor	3 : 1						
Load Power Factor	0.8 (lag to lead)						
Battery							
Type	Sealed lead acid maintenance free						
back-up time (full load)	10 minutes						
Expansion	As required						
Charger	Constant voltage and current limit separated from input inverter						
Recharge time	8 hours to 90 % after fully discharged						
Battery completely discharged	Auto cut - off inverter (line normal at auto-restart)						
Transfer Time							
Mains fail or recover	Zero (automatic)						
UPS to bypass or vice versa	Uninterrupted transfer at full load (automatic)						
Indicators							
Utility and UPS Status	LED & LCD Display						
Load and battery capacity level	LED						
Communication Interface							
DB-9connector(software required)	Sereal Interface port can be connected to work stations or servers which provides the security of automatic, unattended shutdown for all major operating systems.						
Tel Line	yes						
LAN Line	yes						
Audible Alarm							
Battery discharge	Sounding every four seconds after main fails at alarm reset Sounding once every seconds as battery approaches final discharge						
Fault	Continuous						
AccousticNoise							
At one meter	≤45dB						
Environment							
Temperature	0 °C to 45°C						
Humidity	0-95% (non-condensing)						
Dimension							
Width (mm)	220	240		330			
Height (mm)	450	560		800			
Depth (mm)	560	630		680			
Weight (kgs)	65	95	95	110	150	200	
TechnicalRegulations	IEEE 587, EN50091, EN55022 CLASS A, EN50082-1						

Option : Manual bypass switch at >3KVA
Specifications are subject to change without prior notice.

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