

True Galvanic Isolated On-line UPS

SPU Series 10KVA~800KVA

- Ruggedness
- Accept Wide Input Range
- Custom-made Welcome
- Diagnostic Panel with LCD and LED display
- Complete Input to Output True Galvanic Isolation design
- Serial & Parallel Redundant Connection
- **USA MILITARY Approved**



Application

- AC Power from vehicle battery
- Communications Systems
- Cellular Sites
- Network & Data Center
- Emergency Lighting
- Medical Systems / Hospitals
- Oil & Gas
- Precise Measuring & Testing Equipment
- High Tech Industry
- TV & Radio Broadcasting Stations
- Utility Applications
- MILITARY APPLICATIONS:**
 - Military Program, Shipboard, Submarine, Aircraft, Mobile Power Units, Shelters
 - Military System Diagnostics
 - Military Research & Defense Weapons



Oil & Gas



High Tech Industry



Petrochemical Plant



TV & Radio Station



Hospital



Network & Data Center



Utility Applications



Securities Companies

SATECH POWER

USA Military Approved Power System

SPU Series True Galvanic Isolated On-line UPS

The SPU series True Galvanic Isolated On-line UPS is available from 10 to 800 KVA as standard, in single or three-phase output configurations and may be customized to reach up to 2000KVA.

High Efficiency, Optimum Stability, and Superior Heat Dissipation

By use of advanced Technology - DPS, IGBT and Switching Components to increase the reliability, efficiency and heat dissipation.

Complete Input to Output True Galvanic Isolation design

Solve ultimately power problems, including noise, lightning, ground leakage current, and CEMF (Counter - electromotive Force) etc.

Protection against Detaching and Floating of the Neutral of Input Power Supply

Ensure safety and stability of the UPS power output.

No Harm if Incorrect Operation

Friendly design. Unlike strict operation procedures of the other brands', our UPS will not be damaged by any incorrect operation.

Built-in AVR for $\pm 20\%$ Wide Input Voltage Range (Wider on request)

(AC300V ~ AC520V at 380V Grid, full load mode). Works effectively under any unstable AC source. In the case, most other UPSs keep the output voltage stability by battery discharging, our SPU series UPS can still run normally and the battery will not discharge.

Multi-CPU Design and Software / Hardware Cooperate Control

Make the UPS extremely high reliable.

Diagnostic Panel with LCD and LED Display

Tolerate Harsh Environment

Each component is chosen with large safety margin to accommodate Extreme environments, such as temperature, altitude, shock or Contamination.

Ruggedness

The rectifier employs phase control technology to regulate the DC bus Voltage. This is the most efficient method to charge the batteries.

The SCR used are inherently rugged. Additionally, a large inductor is added at the input to avoid deforming the AC source waveform.

Plug & Play Modular design

All electronics are built in modular front access and front removable Sub-assemblies for easy service and quick maintenance. (MTTR: <25mins)

Each Phase with Individual Inverter Supporting

Characteristics will not be violated under 100% unbalance load.

Thermo-controlled Fan Speed

Fans are designed to slow down under light load, so that the fan's life expectancy is extended and audible noise is reduced.

Cold Start Function

Can be started with battery only, no any large surge current being drawn.

Intelligent Charger with Temperature Compensation

Prolong the battery life expectancy. Having huge charging Power (selectable), it can charge very big capacity, long back-up time battery bank.

Smart, Safe Battery Test Circuitry

Test the battery without the risk of output AC failure in case of battery bad. And with battery fluid leakage and improper grounding detect circuitry, can ensure safety of the battery bank.

Reasonable Heat Evacuation Passage Design

Control circuitry and power circuitry are physically separated. The UPS system can operate under harsh environment.

OPTIONS:

Variety of Accessory

Remote control panel, 3 phases PC monitoring software, auto dialing module, battery monitoring module, 3 phases SNMP card, and emergency stop switch are available.

12-Pulse Full Controlled Rectifier

Reduce harmonic current for 80KVA and above UPS.

Input Harmonic Filter

Reduce T. H. D. (Total Harmonic Distortion) of input current.

Serial & Parallel Redundant

Technical Specification (3-Phase Input / 3-Phase Output)

MODEL	SPU 3310	SPU 3315	SPU 3320	SPU 3330	SPU 3340	SPU 3350	SPU 3360	SPU 3380	SPU 33100	SPU 33120	SPU 33160
Capacity (KVA)	10	15	20	30	40	50	60	80	100	120	160
INPUT (RECTIFIER)											
Input Voltage (Select One)	3phase 3W+G:200VΔ/220VΔ/380VΔ/460VΔ (option:480VΔ/600VΔ) 3phase+N+G:200VY/208VY/380VY/400VY/415VY/440VY (option:480VY/600VY)										
Input Voltage Range	±20% (> ±20% is available upon request)										
Input Frequency	50 or 60Hz ±7Hz (400Hz Option)										
Power Walk In	15% ~ 100%: 15 Sec										
Efficiency	≈ 99%										
BATTERY											
Battery Type / Pcs	Maintenance free lead-acid batteries / 12V x 29pcs										
Max. Charge Current Adc (Selectable)	5	7.5	10	15	20	25	30	40	50	60	80
Battery Start	Yes, UPS can be started without AC source										
INVERTER											
Output Voltage (Select One)	3phase 3W+G:200VΔ/220VΔ/380VΔ/460VΔ (option:480VΔ/600VΔ) 3phase+N+G:200VY/208VY/380VY/400VY/415VY/440VY (option:480VY/600VY)										
Voltage Regulation	±1%										
Output Wave Form	Pure Sine Wave										
Output Power Factor	0.8										
Frequency Lock Range	45 ~ 55Hz / 55Hz ~ 66Hz (400Hz Option) (Select One)										
Frequency Stability	±0.1Hz (Crystal Controlled, Free Running)										
Phase Shift	120° ±0.5° (100% Unbalance Load)										
Total Harmonic Distortion	< 3% (0~100% Linear Load)										
Overload	<110% Continuous										
	110~124% 15 minutes										
	125~149% 5 minutes										
	≥150% 30 seconds										
Efficiency(100% Load) (%)	93	93	93	93	93.5	93.5	94	94.5	94.5	95	95
STATIC SWITCH											
Voltage Range	173 ~ 277 VAC (L-N) (Different voltages are available upon request.)										
Mains ↔ Inverter	0 ms (True Online) Zero cross transfer										
OVERALL CHARACTERISTICS											
Capacity (KVA)	10	15	20	30	40	50	60	80	100	120	160
Overall Efficiency (%)	91	91	91	91	91.5	92	92	92.5	92.5	93	93
Max.Heat Dissipation (Kw)	1.1	1.2	1.3	1.9	2.6	3	3.5	4.6	5.4	6.5	8.7
Size (W*D*H/mm)	550*800*1600						1100*800*1600				
Weight (Kg, w/o battery) at I/O 380/220V	300	380	400	470	520	560	630	950	1250	1400	1600
Audible Noise (at 1m)	< 65dBA						< 67dBA				
Relative Humidity	0%~90% (Non-Condensing)										
Temperature / Altitude	0~40°C (32~104°F) / < 1500M Above Sea Level										
Protection	Over/Under Voltage, Output Short Circuit, Overload, Over Temperature Protection										
Lightning / EMC Filter	MOV / Input & Output (FCC CLASS A)										
Galvanic Isolation	Input and Output True Galvanic Isolation										
Diagnostic Panel	LCD Display Real Time Status, Historical Events, 24 Status LED Indicators & Alarm										
Remote Control / Communication Interface	Remote Monitoring 1~99 units simultaneously, distance up to 1,000m / Dry contact, RS232, RS485 (Optional ModBus protocol or SNMP Card)										
STANDARDS											
EMI/EMC	EN50091-1,-2, CE Approved										
UL (Option)	ANS/UL1778, 4th Edition, Rev.July 28'06, CAN/CSA C22.2 #107.3-05.Rev.July'06										



10~60KVA



80~160KVA

- Remarks:
1. Different specifications required are available
 2. All specifications mentioned above are subject to change without prior notice.

Technical Specification (3-Phase Input / 3-Phase Output)

MODEL	SPU 33200	SPU 33240	SPU 33320	SPU 33400	SPU 33500	SPU 33600	SPU 33750	SPU 33800
Capacity (KVA)	200	240	320	400	500	600	750	800
INPUT (RECTIFIER)								
Input Voltage (Select One)	3phase 3W+G:200VΔ/220VΔ/380VΔ/460VΔ (option:480VΔ/600VΔ) 3phase+N+G:200VY/208VY/380VY/400VY/415VY/440VY (option:480VY/600VY)							
Input Voltage Range	±20% (> ±20% is available upon request)							
Input Frequency	50 or 60Hz ±7Hz (400Hz Option)							
Power Walk In	15% ~ 100%: 15 Sec							
Efficiency	≅ 99%							
BATTERY								
Battery Type / Pcs	Maintenance free lead-acid batteries / 12V x 29pcs							
Max. Charge Current Adc (Selectable)	100	120	160	200	250	300	325	400
Battery Start	Yes, UPS can be started without AC source							
INVERTER								
Output Voltage (Select One)	3phase 3W+G:200VΔ/220VΔ/380VΔ/460VΔ (option:480VΔ/600VΔ) 3phase+N+G:200VY/208VY/380VY/400VY/415VY/440VY (option:480VY/600VY)							
Voltage Regulation	±1%							
Output Power Factor	0.8							
Frequency Lock Range	45 ~ 55Hz / 55Hz ~ 66Hz (400Hz Option) (Select One)							
Frequency Stability	±0.1Hz (Crystal Controlled, Free Running)							
Phase Shift	120° ±0.5° (100% Unbalance Load)							
Total Harmonic Distortion	< 3% (0~100% Linear Load)							
Overload	<110%	Continuous						
	110~124%	15 minutes						
	125~149%	5 minutes						
	>=150%	30 seconds						
Efficiency (100% Load) (%)	94	95	95	96	96	96	96	96
STATIC SWITCH								
Voltage Range	173 ~ 277 VAC (L-N) (Different voltages are available upon request.)							
Mains <--> Inverter	0 ms (True Online) Zero cross transfer							
OVERALL CHARACTERISTICS								
Capacity (KVA)	200	240	320	400	500	600	750	800
Overall Efficiency (%)	93	93	93	94	94	95	95	95
Max. Heat Dissipation (Kw)	10.8	13	17.4	21.7	27	32.55	40.6	43.4
Size (W*D*H/mm)	2240*800*1600			2240*1000* 1900	3340*1000* 1900	4460*1000*1900		
Weight (Kg, w/o battery) at I/O 380/220V	2600	2700	3000	3200	4500	6000	6800	7500
Audible Noise (at 1m)	<72dBA				<75dBA	<80dBA		
Relative Humidity	0%~90% (Non-Condensing)							
Temperature / Altitude	0~40°C (32~104°F) / <1500M Above Sea Level							
Protection	Over/Under Voltage, Output Short Circuit, Overload, Over Temperature Protection							
Lightning / EMC Filter	MOV / Input & Output (FCC CLASS A)							
Galvanic Isolation	Input and Output True Galvanic Isolation							
Diagnostic Panel	LCD Display Real Time Status, Historical Events, 24 Status LED Indicators & Alarm							
Remote Control / Communication Interface	Remote Monitoring 1~99 units simultaneously, distance up to 1,000m / Dry contact, RS232, RS485 (Optional MobBus protocol or SNMP Card)							
STANDARDS								
EMI/EMC	EN50091-1,-2, CE Approved							
UL (Option)	ANS/UL1778, 4th Edition, Rev.July 28'06, CAN/CSA C22.2 #107.3-05.Rev.July'06							



200~400KVA



500KVA



600~800KVA

- Remarks:
1. Different specifications required are available
 2. All specifications mentioned above are subject to change without prior notice.

Technical Specification (3-Phase Input / 1-Phase Output)

MODEL	SPU 3110	SPU 3115	SPU 3120	SPU 3130	SPU 3140	SPU 3150	SPU 3160
Capacity (KVA)	10	15	20	30	40	50	60
INPUT (RECTIFIER)							
Input Voltage (Select One)	3phase 3W+G:200VΔ/220VΔ/380VΔ/460VΔ (option:480VΔ/600VΔ) 3phase+N+G:200VY/208VY/380VY/400VY/415VY/440VY (option:480VY/600VY)						
Input Voltage Range	±20% (> ±20% is available upon request)						
Input Frequency	50 or 60Hz ±7Hz (400Hz Option)						
Power Walk In	15% ~ 100%: 15 Sec						
Efficiency	≅ 99%						
BATTERY							
Battery Type / Pcs	Maintenance free lead-acid batteries / 12Vx29pcs						
Max. Charge Current Adc (Selectable)	5	7.5	10	15	20	25	30
Battery Start	Yes, UPS can be started without AC source						
INVERTER							
Output Voltage (Select One)	1 Phase 2W+G 100,110,115,120,200,208,220,230, or 240V (±5% adj.) (Option: 1Phase 3W+G)						
Voltage Regulation	±1%						
Output Power Factor	0.8						
Frequency Lock Range	45 ~ 55Hz / 55Hz ~ 66Hz (400Hz Option) (Select One)						
Frequency Stability	±0.1Hz (Crystal Controlled, Free Running)						
Total Harmonic Distortion	< 3% (0~100% Linear Load)						
Overload	<110%	Continuous					
	110~124%	15 minutes					
	125~149%	5 minutes					
	>=150%	30 seconds					
Efficiency (100% Load) (%)	93	93	93	93	93.5	93.5	93.5
STATIC SWITCH							
Voltage Range	173 ~ 277 VAC (L-N) (Different voltages are available upon request.)						
Mains <-> Inverter	0 ms (True Online) Zero cross transfer						
OVERALL CHARACTERISTICS							
Capacity (KVA)	10	15	20	30	40	50	60
Overall Efficiency (%)	91	91	91	91	91.5	92	92
Max. Heat Dissipation (Kw)	1.1	1.2	1.3	1.9	2.6	3	3.5
Size (W*D*H/mm)	550*800*1600						
Weight (Kg, w/o battery) at I/O 380/220V	370	380	450	580	600	650	700
Audible Noise (at 1m)	<65dBA						
Relative Humidity	0%-90% (Non-Condensing)						
Temperature / Altitude	0~40°C (32~104°F) / < 1500M Above Sea Level						
Protection	Over/Under Voltage, Output Short Circuit, Overload, Over Temperature Protection						
Lightning / EMC Filter	MOV / Input & Output (FCC CLASS A)						
Galvanic Isolation	Input and Output True Galvanic Isolation						
Diagnostic Panel	LCD Display Real Time Status, Historical Events, 24 Status LED Indicators & Alarm						
Remote Control / Communication Interface	Remote Monitoring 1~99 units simultaneously, distance up to 1,000m / Dry contact, RS232, RS485 (Optional MobBus protocol or SNMP Card)						
STANDARDS							
EMI/EMC	EN50091-1,-2, CE Approved						
UL (Option)	ANS/UL1778, 4th Edition, Rev.July 28'06, CAN/CSA C22.2 #107.3-05.Rev.July'06						



10~60KVA



80~160KVA

- Remarks:
1. Different specifications required are available
 2. All specifications mentioned above are subject to change without prior notice.

Technical Specification (3-Phase Input / 1-Phase Output)



80~160KVA

MODEL	SPU 3180	SPU 31100	SPU 31120	SPU 31160
Capacity (KVA)	80	100	120	160
INPUT (RECTIFIER)				
Input Voltage (Select One)	3phase 3W+G:200VΔ/220VΔ/380VΔ/460VΔ (option:480VΔ/600VΔ) 3phase+N+G:200VY/208VY/380VY/400VY/415VY/440VY (option:480VY/600VY)			
Input Voltage Range	±20% (> ±20% is available upon request)			
Input Frequency	50 or 60Hz ±7Hz (400Hz Option)			
Power Walk In	15% ~ 100%: 15Sec			
Efficiency	≈ 99%			
BATTERY				
Battery Type / Pcs	Maintenance free lead-acid batteries / 12V x 29pcs			
Max. Charge Current Adc (Selectable)	40	50	60	80
Battery Start	Yes, UPS can be started without AC source			
INVERTER				
Output Voltage (Select One)	1phase 2W+G:200V/220V/230V/240V (Special voltage can be customized)			
Voltage Regulation	±1%			
Output Wave Form	Pure Sine Wave			
Output Power Factor	0.8			
Frequency Lock Range	45 ~ 55Hz / 55Hz ~ 66Hz (400Hz Option) (Select One)			
Frequency Stability	±0.1Hz (Crystal Controlled, Free Running)			
Total Harmonic Distortion	< 3% (0~100% Linear Load)			
Overload	<110%	Continuous		
	110~124%	15 minutes		
	125~149%	5 minutes		
	>=150%	30 seconds		
Efficiency(100% Load) (%)	94.5	94.5	95	95
STATIC SWITCH				
Voltage Range	173 ~ 277 VAC (L-N) (Different voltages are available upon request.)			
Mains <--> Inverter	0 ms (True Online) Zero cross transfer			
OVERALL CHARACTERISTICS				
Capacity (KVA)	80	100	120	160
Overall Efficiency (%)	92.5	92.5	93	93
Max.Heat Dissipation (Kw)	4.6	5.4	6.5	8.7
Size (W*D*H/mm)	1100*800*1600			
Weight (Kg, w/o battery) at I/O 380/220V	950	1250	1400	1600
Audible Noise (at 1m)	< 67dBA			
Relative Humidity	0%~90% (Non-Condensing)			
Temperature / Altitude	0~40°C (32~104°F) / < 1500M Above Sea Level			
Protection	Over/Under Voltage, Output Short Circuit, Overload, Over Temperature Protection			
Lightning / EMC Filter	MOV / Input & Output (FCC CLASS A)			
Galvanic Isolation	Input and Output True Galvanic Isolation			
Diagnostic Panel	LCD Display Real Time Status, Historical Events, 24 Status LED Indicators & Alarm			
Remote Control / Communication Interface	Remote Monitoring 1~99 units simultaneously, distance up to 1,000m / Dry contact, RS232, RS485 (Optional MobBus protocol or SNMP Card)			
STANDARDS				
EMI/EMC	EN50091-1,-2, CE Approved			
UL (Option)	ANS/UL1778, 4th Edition, Rev.July 28'06, CAN/CSA C22.2 #107.3-05.Rev.July'06			

- Remarks:
1. Different specifications required are available
 2. All specifications mentioned above are subject to change without prior notice.

Technical Specification (1-Phase Input / 3-Phase Output)



10~60KVA

MODEL	SPU 1310	SPU 1315	SPU 1320	SPU 1330	SPU 1340	SPU 1350	SPU 1360
(KVA)	10	15	20	30	40	50	60
INPUT (RECTIFIER)							
Input Voltage (Select One)	1 Phase 2W+G: 100, 110, 115, 120, 200, 208, 220, 230, or 240V						
Input Voltage Range	±20% (> ±20% is available upon request)						
Input Frequency	50 or 60Hz ±7Hz (400Hz Option)						
Power Walk In	15% ~ 100%: 15 Sec						
Efficiency	≈ 99%						
BATTERY							
Battery Type / Pcs	Maintenance free lead-acid batteries / 12V x 29pcs						
Max. Charge Current Adc (Selectable)	5	7.5	10	15	20	25	30
Battery Start	Yes, UPS can be started without AC source						
INVERTER							
Output Voltage (Select One)	3phase 3W+G:200VΔ/220VΔ/380VΔ/460VΔ (option:480VΔ/600VΔ) 3phase+N+G:200VY/208VY/380VY/400VY/415VY/440VY (option:480VY/600VY)						
Voltage Regulation	±1%						
Output Power Factor	0.8						
Frequency Lock Range	45 ~ 55Hz / 55Hz ~ 66Hz (400Hz Option) (Select One)						
Frequency Stability	±0.1Hz (Crystal Controlled, Free Running)						
Phase Shift	120° ±0.5° (100% Unbalance Load)						
Total Harmonic Distortion	< 3% (0~100% Linear Load)						
Overload	<110%	Continuous					
	110~124%	15 minutes					
	125~149%	5 minutes					
	>=150%	30 seconds					
Efficiency (100% Load) (%)	93	93	93	93	93.5	93.5	93.5
STATIC SWITCH							
Voltage Range	173 ~ 277 VAC (L-N) (Different voltages are available upon request.)						
Mains <--> Inverter	0 ms (True Online) Zero cross transfer						
OVERALL CHARACTERISTICS							
Capacity (KVA)	10	15	20	30	40	50	60
Overall Efficiency (%)	91	91	91	91	91.5	92	92
Max.Heat Dissipation (Kw)	1.1	1.2	1.3	1.9	2.6	3	3.5
Size (W*D*H/mm)	550*800*1600						
Weight (Kg, w/o battery) at I/O 380/220V	300	350	400	470	520	560	630
Audible Noise (at 1m)	<65dBA						
Relative Humidity	0%~90% (Non-Condensing)						
Temperature / Altitude	0~40°C (32~104°F) / < 1500M Above Sea Level						
Protection	Over/Under Voltage, Output Short Circuit, Overload, Over Temperature Protection						
Lightning / EMC Filter	MOV / Input & Output (FCC CLASS A)						
Galvanic Isolation	Input and Output True Galvanic Isolation						
Diagnostic Panel	LCD Display Real Time Status, Historical Events, 24Status LED Indicators & Alarm						
Remote Control / Communication Interface	Remote Monitoring 1~99 units simultaneously, distance up to 1,000m / Dry contact, RS232, RS485 (Optional ModBus protocol or SNMP Card)						
STANDARDS							
EMI/EMC	EN50091-1,-2, CE Approved						
UL (Option)	ANS/UL1778, 4th Edition, Rev.July 28'06, CAN/CSA C22.2 #107.3-05.Rev.July'06						

- Remarks:
1. Different specifications required are available
 2. All specifications mentioned above are subject to change without prior notice.

Technical Specification (1-Phase Input / 1-Phase Output)

MODEL	SPU 1115	SPU 1120	SPU 1130	SAU 1103	SAU 1105	SAU 1108	SAU 1110
Capacity (KVA)	15	20	30	3	5	8	10
INPUT (RECTIFIER)							
Input Voltage (Select One)	1Phase 2W+G:110,208,220,230 or 240V ±20%			1Phase 2W+G:110,208,220,230 or 240V -20%/+35%; (-30%/+40%, AVR Option)			
Input Frequency	50 or 60Hz ±7Hz (400Hz Option)						
BATTERY (BUILT-IN)							
Voltage	348Vdc , 12Vx29pcs			192Vdc, 12Vx16pcs			
Charger (ADC)	7.5	7.5	7.5	1	5 (option: 10)		
OUTPUT							
Voltage (Select One)	110, 208, 220, 230, or 240V, 1Phase 2W+G or 3W+G, (±5% adjustable)						
Voltage Regulation	±1%						
Frequency Lock Range	45 ~ 55Hz / 55Hz ~ 66Hz (400Hz Option) (Select One)						
Frequency Stability (Crystal Controlled)	±0.1Hz (Free Running)			±0.5% (Free Running)			
Total Harmonic Distortion	<3%			<3%			
Output Power Factor	0.8 (0~100% Linear Load)			0.7~1 lag (0~100% Linear Load)			
TRANSFER TIME							
Mains <--> Inverter	0 ms (True Online) Zero cross transfer						
PROTECTION							
Over/Under Voltage	Bypass and Alarm						
Output Short Circuit	Auto-shutdown and Alarm						
UPS Fault	Bypass and Alarm			Bypass, Load Supplied from mains <2ms			
Lightning	MOV						
Over Temperature	Auto Shutdown						
EMI/EMC	EN50091-1,-2, CE Approved			EN50091-2, CE Approved			
Battery	Battery low shutdown and breaker trip						
Overload	<110%	Continuous					
	110 ~124%	15 minutes					
	125%~149%	5 minutes			30 seconds, then switch to Bypass and auto re-transfer		
	>=150%	30 seconds (Auto Shut down; Auto Restore when back to normal)			Auto transfer to Bypass		
INDICATORS & ALARM							
LCD Data Display	Real Time States, Data or Historical Events, Parameters, Real Time Clock, Inverter& Alarm			UPS States, I/P&O/P Voltage and Frequency, Loading %, Historical Events			
LED Data Display	Up to date information (States) to The User & Audible (Buzzer) Alarm			Utility LED (Green), Inverter LED (Green), Fault LED (Red), Overload (Yellow) & Warning			
INTERFACE							
Communication Interface	Dry contact, RS232, RS485, (or Optional Modbus protocol or SNMP Card . (Remote Monitoring 1~99 units simultaneously, distance up to 1,000m)			Dry contact, RS232, SNMP Card (Option)			
Support Software	MAGATEC UPSilon 2000, Netagent II (option)						
OUTLOOK							
Capacity	15	20	30	3	5	8	10
Size (W*D*H/mm)	550*800*1600			500*360*180	230*578*685	480*340*845	
Net Weight at I/O 380/220V (Kgs) (w/o batteries)	300	350	400	33	66	115	116
ENVIRONMENT							
Audible Noise at 1m	< 65dBA			< 45dBA			
Relative Humidity	0%~90%(Non-Condensing)			20%~90%(Non-Condensing)			
Temperature	0~40°C (32~104°F)						
Altitude	< 1500M Above Sea Level						



3~5KVA



6.5~10KVA



10~60KVA

Remarks: 1. Different specifications required are available
2. All specifications mentioned above are subject to change without prior notice.

Battery Cabinet Specification

■ Battery Cabinet Design:

The battery cabinet is designed with the same size and outline as the UPS for convenience of installation when several cabinets of UPS and battery are aligned together.

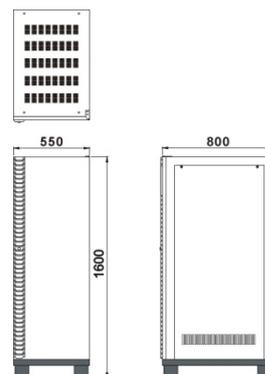
It can accommodate Lead Acid maintenance free battery 26AH/12V * 29pcs (1 set) or 58pcs (2 sets)

■ Dimension (H * W * D/mm): 1600 * 550 * 800

■ Weight:

26AH/12V * 29pcs * 1set is about 360kgs.

26AH/12V * 29pcs * 2sets is about 620kgs.



Peripheral Options

✓ UPSCAN™ - Remote Control Panel

A hand held display module with LCD and LED can monitor 1 – 99 UPSs with RS-485 connected in series from distance <1,000M.

✓ GPRS MODEM - Auto-dialing Module

In case of abnormal situation, it will automatically dial to specified service center for help. Multiple phone numbers can be set and no dedicated line is required

✓ UPSCOM™ - 3 Phase PC Monitoring Software

Can provide real-time three phases information of UPS connected on the line and monitor 31 UPSs max. with one PC. English or Chinese version display Selectable.

✓ DCMAN™ - Battery Monitoring Module

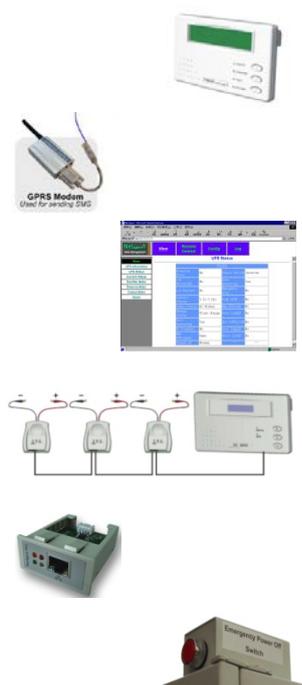
An intelligent module to keep watching each battery in a battery bank connected in series and can distinguish and repair the aged battery before it is seriously worn out.

✓ 3 Phase SNMP Card

Can monitor and manage the UPS through Web browser and Java applet, providing simultaneously three phases data acquisition.

✓ Emergency Stop Switch (EPO)

This feature can be customized to trip off current breakers or perform other inhibits depending customer needs.



Other Options

● Shock Mount Option

The cabinet can be shock mounted, using optional rubber or coil type isolators. This will enable the unit to withstand shock levels as specified in MIL-S-901.

● Casters & Levelers

● Ruggedizing Option

This option will add conformal coating and other additional internal structural members to allow the unit to meet many portions of MIL-STD-810 including shock, vibration, and humidity.

● Drip Shield Options -

This option offers protection against falling or dripping liquids.

● Cable Entrance Direction

Cable Entrance can be from Front, Side, Rear or Top side.