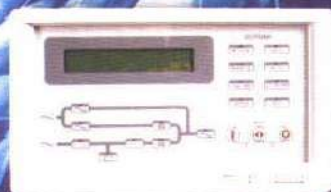
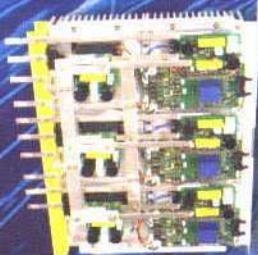


ALP SERIES 3-PHASE TRUE GALVANIC ISOLATED UPS

20 KVA ~ 320 KVA

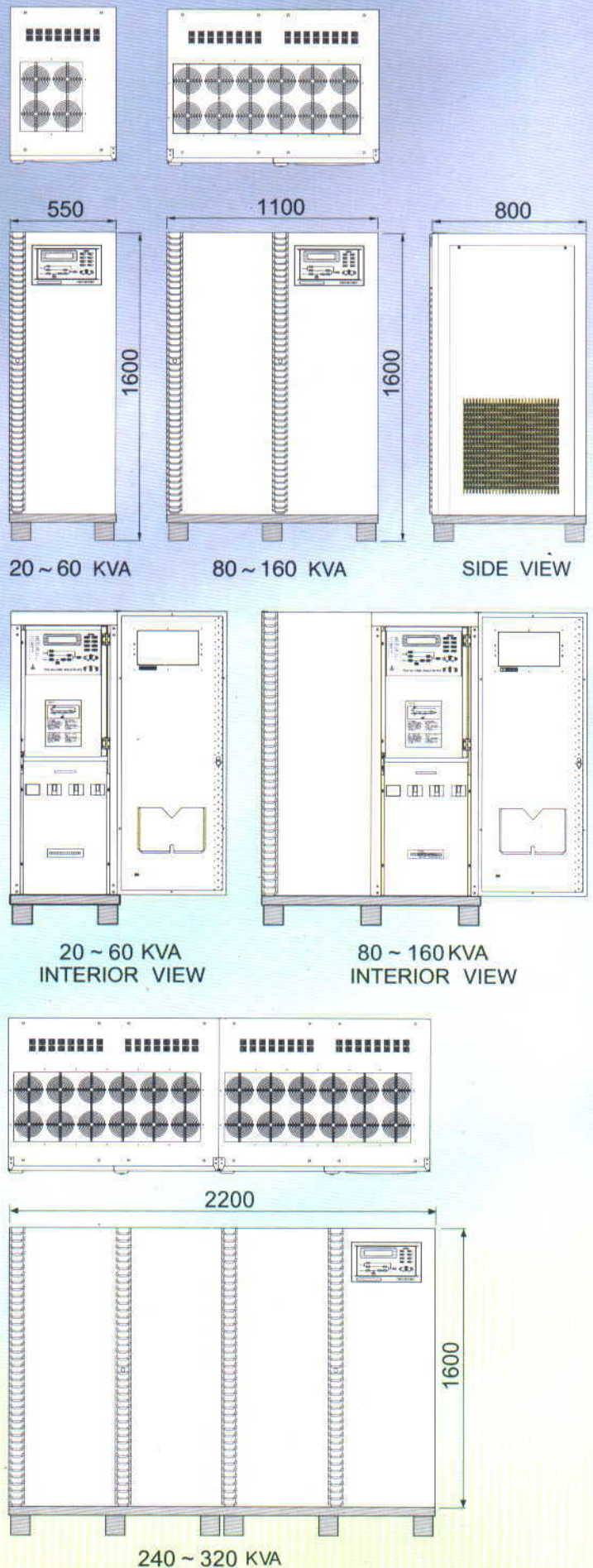
Safe Stable Smart



ALP FEATURES AND ADVANTAGES

- True Galvanic isolation design**
 Solve ultimately the problem of power system, including noise, lightning, and leakage current etc.
- Protection against detaching and floating of the neutral of input power supply**
 Ensure the safety and stability of the UPS power output.
- No harms if incorrect operation**
 With friendly design, different from the strict operation procedure of other brands', UPS will not be damaged by any incorrect operation.
- Advanced technology DSP, IGBT and switching components**
 Increase the reliability and efficiency.
- Multi-CPU design and software/hardware cooperate control**
 Make the system extremely high reliable.
- Plug & play modular design**
 Permit quick and convenient maintenance.
- Each phase with individual inverter supporting**
 Characteristics will not be violated under 100% unbalance load.
- Intelligent charger with temperature compensation**
 Prolong the battery life expectancy. And with huge charging power (selectable), can charge very big capacity, long back-up time battery bank.
- Intelligent, 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.
- Intelligent fan speed control**
 Increase the fan life expectancy and reduce audible noise.
- Reasonable heat evacuation passage design**
 Control circuitry and power circuitry are physically separated. Therefore, the UPS system can operate under harsh environment.
- Cool start function**
 Can be started without AC mains (with battery only) and no any large surge current being drawn.
- Variety of accessory (option)**
 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 (option)**
 Reduce harmonic current for 80KVA and above UPS.
- Input Harmonic Filter (option)**
 Reduce T.H.D.(Total Harmonic Distortion) of input current.
- Parallel Operation (option)**
 Connect up to 8 units to increase the capacity.

ALP SERIES DIMENSION (mm)



TECHNICAL SPECIFICATION

PHASE	3-Phase Input / 3-Phase Output												3-Phase Input / 1-Phase Output			
	KVA		20	30	40	50	60	80	100	120	160	240	320	20	30	40
INPUT (RECTIFIER)																
Input Voltage	220VΔ / 380VΔ / 460VΔ , 208VY / 380VY / 400VY / 415VY															
Input Range	± 20% (> ± 20% is available upon request.)															
Input Frequency	50 / 60 Hz ± 5Hz															
Power Walk In	0% - 100% : 20 sec															
Efficiency	÷ 98%															
Voltage Regulation	± 1%															
BATTERY																
Battery Type / Pcs	Maintenance free lead-acid batteries / 12V x 29pcs															
Maximum Charge Current Adc (Selectable)	10	15	20	25	30	40	50	60	80	120	160	10	15	20	25	
Battery Start	Yes, UPS can be started without AC source.															
INVERTER																
Output Voltage	220VΔ / 380VΔ / 460VΔ , 208VY / 380VY / 400VY / 415VY, ± 1 %												220 / 230 / 240V, 1p 2w or 3w			
Wave Form	Sinewave															
Output Power Factor	0.8															
Frequency Lock Range	50 / 60 Hz ± 3 HZ															
Output Frequency (Free Running)	50 / 60 Hz ± 0.1 Hz															
Phase Shift Under 100% Unbalance Load	< 0.5°															
THD (Linear Load)	< 2 %															
Overload	<110 %		Continuous													
	110 -125%		15 minutes													
	125 -150%		10 minutes													
	>150 %		1 minute													
Efficiency (100% Load)	93%	93%	93.5%	93.5%	94%	94.5%	94.5%	95%	95%	95%	95%	95%	93%	93%	93.5%	93.5%
STATIC SWITCH																
Voltage Range	173-277 VAC (L-N) (Different voltages are available upon request.)															
Mains ↔ Inverter	0 ms															
OVERALL CHARACTERISTICS																
Overall Efficiency	91%	91%	91.5%	92%	92%	92.5%	92.5%	93%	93%	93%	93%	93%	91%	91%	91.5%	92%
Maximum Heat Dissipation (Kw)	1.3	1.9	2.6	3	3.5	4.6	5.4	6.5	8.7	13	17.4	1.3	1.9	2.6	3	
Heigh x Width x Depth (mm)	1600 x 550 x 800						80-160KVA: 1600 x1100 x 800 240-320KVA: 1600 x2200 x 800						1600 x 550 x 800			
Weight (Kg, without battery)	300	400	480	550	680	820	950	1180	1450	1950	2450	300	400	480	550	
Audible Noise	< 65 dBA (At 1 m)						< 67 dBA (At 1 m)						< 65 dBA (At 1 m)			
Temperature	0-40°C (32-104°F)															
Humidity	0%-90% (Non-Condensing)															
Altitude	<1500M Above Sea Level															
EN50091-1,-2	YES															
Short Circuit Protection	YES															
Lightning / EMC Filter	MOV / Input&Output (FCC CLASS A)															
Galvanic Isolation	Input&Output True Galvanic Isolation															
LED,LCD,Buzzer	YES															
Remote Control / Communication Interface	Monitoring 1~99 UPS simultaneously / Dry contact, RS232,RS485															

- Different specifications required are available.
- 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 * 29 pcs (1 set) or 58 pcs (2 sets).

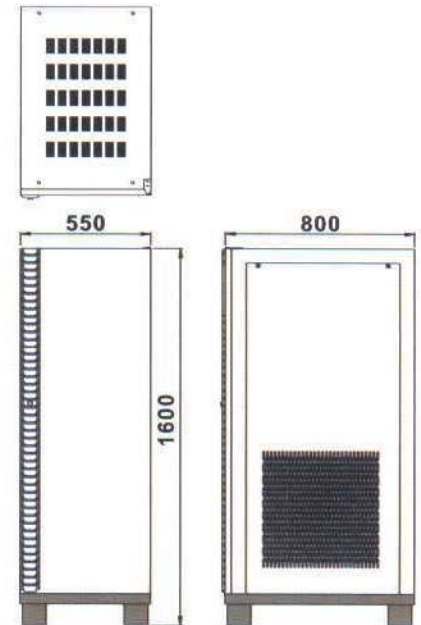
- **Dimension (H *W *Dmm):**

1600 *550 *800

- **Weight:**

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

26Ah/12V * 29 pcs * 2 sets 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 < 1000M.

- **UPSCALL™ - 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 Phases PC Monitoring Software**

Can provide real-time three phases information of UPS connected on the line and monitor several UPSs with one PC.

- **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 Phases SNMP Card**

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

- **Emergency Stop Switch**

Be installed outside or nearby the UPS for stopping the UPS output in case of emergency.