

ALP FEATURES AND ADVANTAGES

- Advanced technology DSP, IGBT and switching components To increase the reliability and efficiency.
- Multi-CPU design and software/ hardware cooperate control To make the system extremely high reliable.
- Plug & play modular design
- To permit quick and convenient maintenance.
- Each phase with individual inverter supporting Characteristics will not e violated under 100% unbalance load.
- True Galvanic isolation design
- To solve ultimately the problem of power system.
- Protection against detaching and floating of the neutral of input power supply

To ensure the safety and stability of the UPS power output.

- User friendly control design
- To enable easy operation, different from the strict operation procedure of other brands'.
- Intelligent charger with temperature compensation

To prolong the battery life expectancy.

Huge charging power

To charge very big capacity, long back-up time battery bank.

- •Intelligent, safe battery test circuitry
- To test the battery without the risk of output AC failure in case of battery bad.
- Battery fluid leakage and improper grounding detect circuitry To ensure safety of the battery bank.
- Intelligent fan speed control

To increase the fan life expectancy and reduce audible noise.

- Reasonable heat evacuation passage design Control circuitry and power circuitry are physically separate. 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.

Various interface options

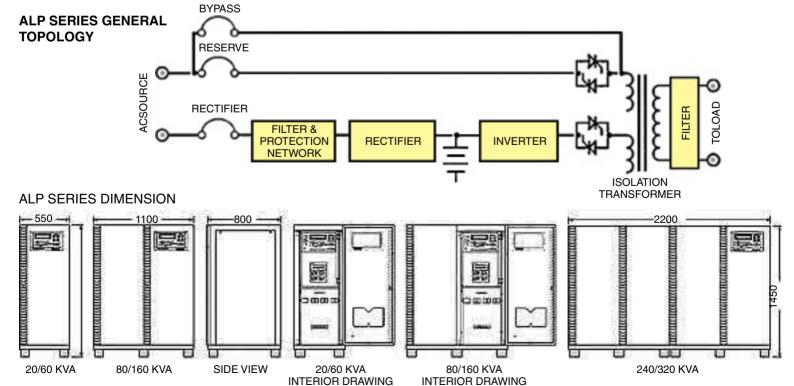
Remote control panel, automatic call-service, automatic cell by cell battery tester, intelligent power distributor, and network monitoring software are available.

•12-pulse full controlled rectifier (option)

To reduce input harmonic current of UPS.

•Input harmonic Filter (option)

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



TECHNICAL SPECIFICATION

	CAL SPECIFIC																
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	50	
INPUT(RECTIFIER)																	
Input Voltage		220V△ /380V△ /460V△ , 208VY/380VY/400VY/415VY															
Input Range		$\pm20\%$ (> $\pm20\%$ is available upon request)															
Input Frequency		50/60 Hz ± 7%															
Power Walk In		0%-100% : 20 sec															
Efficiency		≒ 98%															
Voltage Regulation			±1%														
BATTERY																	
Battery Type	e / Pcs					Mai	intenance	free lead	d-acid ba	tteries /	12V X 29	pcs					
Maximum Charge Current Adc (Selectable)		10	15	20	25	30	40	50	60	80	120	160	10	15	20	25	
Battery Start							Yes, UP	S can be	started v	without A	C source)					
INVERTER																	
Output Voltage		220V△/380V△/460V△, 208VY/380VY/400VY/415VY, ±1%											220/230/240V,1p 2w or 3w				
Wave Form		Sinewave															
Output Power Factor			0.8														
Frequency Lock Range			45-55Hz/ 55-65Hz														
Output Frequency (Free Running)		50-60Hz ±0.1Hz															
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%	93%	93%	93.5%	93.5%	
STATIC SW	/ITCH																
Voltage Range		173-277VAC(L-N)(Different voltages are available upon reguest)															
Mains ← → Inverter		0ms															
OVERALL	CHARACTERIS	ΓICS															
Overall Efficiency		91%	91%	91.5%	92%	92%	92.5%	92.5%	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	
HXWXD (mm)		1450X550X800					80-160KVA: 1450X1100X800, 240-320KVA: 1450X2200X800						1450X550X800				
Weight (Kg, without battery)		300	400	480	550	680	820	950	1180	1450	1950	2450	300	400	480	550	
Audible Noise			<65	dBA (at						A(at 1m)					A(at 1m)		
Temperature		0°C~45°C(32-104°F)															
Humidity		0%-90% (non-condensing)															
Altitude		<1500m above sea level															
EN50091-1,-2		Yes															
Short Circuit Pretection		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 specification mentioned above are subject to change without prior notice.

BATTERY CABINET SPECIFICATION

● Dimension HXWXD (mm) 550 — 1450X550X800

Weight: 26Ah/12VX29 pcsX1 set is about 360kgs.26Ah/12VX29 pcsX2 set is

about 620kgs.

• Emergent stop switch Be installed outside or

OPTION

nearby the UPS for stopping the UPS output in case of emergency.

● Remote control panel - UPSCAN™

A hand held display module with LCD and LED can monitor 1-99 UPS with RS-485 connected in series from distance <1000M.

● Software for PC monitoring - UPSCOM™

A software installed in a PC to monitor 1-99 UPS with RS-232 connected in series. It can also send E-mail through internet or call pager.

● Auto-dialling module - UPSCALL™

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

BACK-UP TIME vs. AH TABLE

BACK-UP	KVA	10	20	30	40	50	60	80	100	120	160	240	320
TIME	KW	8	16	24	32	40	48	64	80	96	128	192	256
10 min.		8.5	17	26	34	42.5	52	68	83	104	136	208	272
15 min.		10.5	21	31.5	42	52.5	63	84	105	126	168	252	336
30 min.		19.5	39	58.5	78	97.5	117	156	195	234	312	468	624
1 hr.		33.5	67	100.5	134	167.5	201	268	335	402	536	804	1072
2 hr.		56.5	113	169.5	226	282.5	339	452	565	678	904	1356	1808
4 hr.		99.5	199	299	398	498	598	796	996	1196	1592	2392	3184
8 hr.		177.5	355	532	710	888	1064	1420	1776	2128	2840	4256	5680

● Power management module - ACMAN™

An intelligent module communicating with UPS to manage, monitor and record UPS power and load condition.

● Battery monitoring module - DCMANTM

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