







online UPS COMPACT Rack-tower convertible 1-10 kVA

- LOCAL AREA NETWORKS (LAN)
- SERVERS
- DATA CENTERS

- INTERNET CENTERS (ISP/ASP/POP)
- INDUSTRIAL PLCS
- EMERGENCY DEVICES (LIGHT, ALARM)
- ELECTROMEDICAL DEVICES
- TELECOMMUNICATION DEVICES
- INDUSTRIAL APPLICATION

AP160N series

The highest power density and reliability meet the characteristics of upgraded superior AP160N Series, which is the perfect solution for the most critical loads, as servers and IT networks.

COMMON FEATURES:

- Excellent Reliability
- High Power Density
- Flexible Settings
- Compact Solution
- Lower Power Auto-consumption
- Long run time Model

COMMON FEATURES

EXCELLENT RELIABILITY

- DSP technology fully controlled
- Rotary segment LCD display with easy access
- Self monitoring and fault diagnosis

HIGH POWER DENSITY

- Wide input voltage range
- 0,9 load PF increase the power availability
- Input power factor correction for the lowest current distortion

FLEXIBLE SETTINGS

- Selectable configuration via LCD: online, ecomode and frequency converter mode (CVCF)
- EPO connector for emergency power off

COMPACT SOLUTION

- Higher power performance in slim height for 19" rack space
- Internal batteries included, with easy replacement
- Standard battery connector for additional backup time

LOWER POWER AUTO-CONSUMPTION

- Very high efficiency
- Ecomode operation available for efficiency up to 97%
- Lower heating dissipation

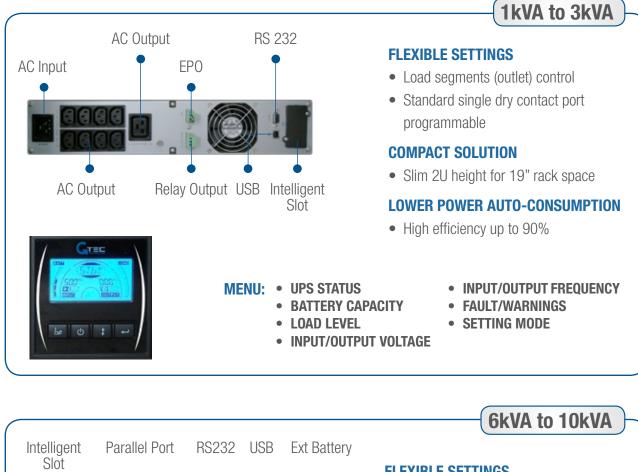
LONG RUN TIME MODEL

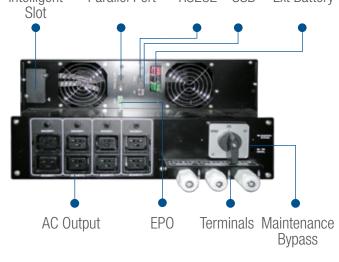
- Dedicated solution available with super charger for long autonomy
- Using external batteries with large capacity with dedicated battery pack





AP**160**N





FLEXIBLE SETTINGS

- Redundant parallel 1+1 configuration
- Optional hot swappable PDU with power segment outlets and mechanical maintenance bypass switch

COMPACT SOLUTION

- 3U package for the 6kVA version and 5U package for the 10kVA, with internal batteries included
- Dual inputs, with separated bypass

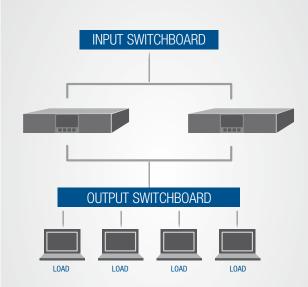
LOWER POWER AUTO-CONSUMPTION

• Efficiency greater than 93%



MENU: • UPS STATUS

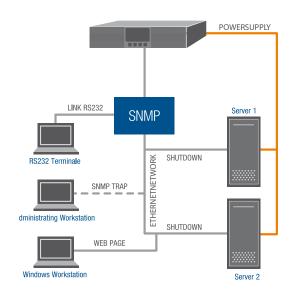
- BATTERY CAPACITY
 - LOAD LEVEL
 - INPUT/OUTPUT VOLTAGE
- INPUT/OUTPUT FREQUENCY
- FAULT/WARNINGS
- SETTING MODE



AP160N 6kVA to 10kVA UPS in parallel configuration to meet most demanding power requirement. Increase power availability and flexibility.

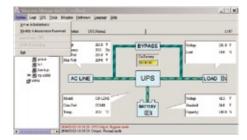
Parallel Redundancy feature provides economic power solution for system integration. Furthermore, parallel redundancy feature equally shares the load to maximize UPS performance, and more secure UPS continuous operation.

Direct Connection with Ethernet Network



Communication and Power Management Solutions

WinPower CD is packed with UPS, and can also be downloaded from the internet. It has the function to remote monitor and control UPS, warning notifications through broadcast and mobile phone, multi-shutdown PCs, and schedule UPS self-test. This unique software provides complete power protection for computer system during power failure. The software supports lots of O/S including Windows family, Linux, Sun Solaris 7/8/9, FreeBSD, IBM Aix 4.3x, 5.1x, and HP-UX 11.x. More than that, to offer increased benefits for our customers, we have also released USB version MAC version on the internet.



- Power flow display for monitoring UPS status
- Scheduled system shutdown/restart
- Scheduled UPS test
- Warning notification via E-mail / Pager
- Warning notification via Broadcast
- Password security protection
- Remote Monitor / Control via LAN

INTERFACE OPTION:



- Multi-language versions: English, German, French, Italian, Spanish, Portuguese and Chinese
- Selectable User Interface (Background)
- UPS Parameter setting
- Record logs for analysis
- SNMP Network card allows management of UPS across LAN using any of the main network communication protocols TCP/IP and network interface via SNMP.

AP**160**N

			TECHN	ICAL SF	PECIFIC	ATIONS					
Model	AP160N	1K	1KS*	2K	2KS*	3K	3KS*	6K	6KS*	10K	10KS*
Power Rating	-	1000VA	v/900W	2000VA	v1800W	3000VA	/2700W	6000VA	v5400W	10000	V9000W
	INPUT										
Rated Voltage		220Vac / 230Vac / 240Vac									
Voltage Tolerance		120 ÷ 276 Vac									
Transfer Voltage Range		Based on load percentage 100%/50%									
Line Low Transfer		176Vac (± 3%) / 120Vac (± 3%)									
Line High Transfer		276Vac (± 3%)									
Frequency Range		45Hz÷55Hz / 54Hz÷66Hz									
THDi%		< 5% at full load									
Power Factor		> 0.99 (I/P220Vac, full RCD load)									
		OUTPUT									
Rated Voltage		208Vac** / 220Vac / 230Vac / 240Vac									
Voltage Regulation		± 1%									
Rated Frequency AC mode		50/60 ± 0,2%									
Crest Factor		3:1									
Harmonic Distortion		≤ 2% THD (Linear Load)									
Output Waveform		Pure Sinewave									
Power factor		0,9									
						BAT	TERY				
Туре		Sealed lead acid battery, maintenance free									
Rating	ating		36Vdc	12V/9AH	48Vdc	12V/9AH	72Vdc	12V/5AH	180Vdc	12V/9AH	240Vdc
Numbers of Batte	umbers of Batteries		Depending on the capacity of external	4	Depending on the	6	Depending on the capacity of external	15 Depending on the	20	Depending on the	
Backup Time (typi	ackup Time (typical load)			> 6 minutes	capacity of external	> 6 minutes		> 5 minutes	inutes capacity of external		capacity of externa
Recharge Time		3 hours to 90%	batteries	3 hours to 90%		3 hours to 90%		3 hours to 90%		3 hours to 90%	batteries
Charging Voltage		41.1 ±	0.6Vdc	54.6 ±	0.4Vdc	81.9 ±	0.4Vdc	204.7 ±	0.4Vdc	273.0 ±	0.4Vdc
	GENERAL CHARACTERISTICS										
Transfer time	Oms										
(Inverter to Bypass)											
Dual Input to Bypass		N/A as standard								YES as standard	
Parallel configuration		N/A						YES as optional			
Efficiency (online mode)		> 8	7%	> 89%		> 90%		> 9;		•	
Dimensions WxDxH (mm)		438x435x2U		438x435x2U		438x560x2U		438x560x3U		438x560x5U	
Weight UPS case	. ,	15.3	9.1	30.5	12.3	33.2	13.5	46.5	18.0	82.5	32.5
Operating Temperature				1	1	0-40)° C	1		1	
Humidity		0-95% (non-condensing)									
Noise Level (@ 1m)		<45dB <50dB <55dB									
Interface standard via Smart USB		WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun So- laris, IBM Aix, Compag True64, SGI IRIX, FreeBSD, HP-UX, and MAC									
Interface for Intelligent Slot		SNMP /AS400 Card / Modbus all optional									
Compliance	IEC 61000-4, IEC 62040-1, IEC 62040-2, IEC 62040-3, IEC 60950-1, IEC 62040-1, ETS 300019-2-2										

* ks version are provided with battery extra charger ** Derate to 90% with 208Vac output voltage. Note: product specifications are subject to change without further notice.

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