

# AETES

## L C D S E R I E S U P S

*Double Conversion Technology*

*Possibility of extended back up times*

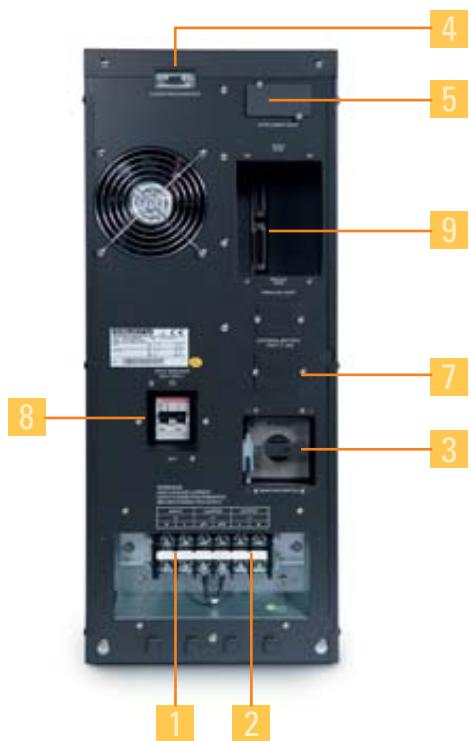
*Parallel capacity up to 3 equipments*

**6-20 kVA**



## BACK PANEL

1. AC input.
2. AC output.
3. Maintenance bypass.
4. RS-232 interface.
5. Intelligent slot (SNMP, USB, AS-400).
6. Data line protection RJ-11/RJ-45.
7. Battery module connection.
8. Input protection.
9. Parallel port.



## DESCRIPTION

The LCD series of AETES has been designed to contribute with the needed flexibility to medium UPS power rates, because it's where is indispensable to combine a protection of first magnitude with the capacity of adaptation to different applications.

This is why the LCD series incorporates, as the most important feature, the capacity of growing in parallel, up to 3 units, with or without redundancy, with the purpose to get a real upgrade, and this way, avoiding to replace the before UPS installed in front of a higher requirement, so much qualitative as quantitative, of the different users. Manufactured in a power range, from 6 KVA to 20 kVA, it is made up by equipments with single phase input ; from 6 KVA to 10 kVA or three phase one ; from 10 to 20 kVA, and always with single phase output. Also, among many other advantages, the series includes rectifier with Soft Start, inaudible switching operating frequency at 20 kHz, power factor > 0,98 and output accuracy better than 1%.

## COMMUNICATIONS

- ▶ RS-232 interface.
- ▶ Monitoring software.
- ▶ SNMP / Web adapter. (1)
- ▶ AS-400 card. (1)
- ▶ USB port card. (1)
- ▶ MODBUS protocol. (1)

(1) Optional

## ADAPTABILITY

- ▶ Extended back up times. (1)
- ▶ Parallel redundant system

# AETES LCD 6-20K ONLINE UPS

MODEL			6K	6KS*	10K	10KS*	3C10K*	3C15K*	3C20K*		
CAPACITY	VA/W		6000VA/4200W		10000VA/7000W		10000VA/7000W		15000VA/10500W		
INPUT	Voltage Range	Low Line Transfer	176VAC ± 3VAC		304VAC ± 3VAC						
		Low Line Comeback	185VAC ± 3VAC		322VAC ± 3VAC						
		High Line Transfer	276VAC ± 3VAC		478VAC ± 3VAC						
		High Line Comeback	266VAC ± 3VAC		461VAC ± 3VAC						
	Frequency Range		46Hz ~ 54Hz		46Hz ~ 54Hz						
	Phase		Single phase with ground		Three phase with ground						
	Power Factor		≥0.98								
OUTPUT	Voltage		220VAC/230VAC/240VAC								
	Voltage Regulation		±1%								
	Frequency (Synchronized range)		46~54Hz								
	Frequency (Battery Mode)		50 ± 0.05 Hz								
	Current Crest Ratio		3:1								
	Harmonic Distortion	Tower Case	≤2% THD (Linear Load) ≤6% THD (Non-Linear Load)								
		Rack Case	4% THD (Linear Load) 7% THD (Non-Linear Load)		N/A						
Output Waveform				Pure Sinewave							
EFFICIENCY	To AC Mode						>88%				
	To Battery Mode										
BATTERY	Tower Case	Battery Type	12V/7.2Ah	20	Depending on the capacity of external batteries	12V/9Ah					
		Numbers of Batteries	8 minutes	5 minutes			Depending on the capacity of external batteries				
		Backup Time (Full Load)	7 hours to 90%	8 hours to 90%							
		Recharge Time	2A	2A			4.2A				
		Charging Current (Max.)	274Vdc±1V								
		Charging Voltage									
	Rack Case	Battery Type	12V/7.2Ah	20			Zero				
		Numbers of Batteries	>8 minutes			Zero					
		Backup Time (Full Load)	2A			N/A					
		Charging Current (Max.)									
	Charging Voltage		274Vdc±0.5V								
TRANSFER TIME	AC to DC						Load Level / Battery Level / Battery Mode / AC Mode / Bypass Mode / Fault				
	Inverter to Bypass										
INDICATOR	Status										
AUDIBLE ALARM	Battery Mode				Sounding every 4 seconds						
	Low Battery				Sounding every second						
	Overload				Sounding twice every second						
	Fault				Continuously Sounding						
DIMENSION	Tower Case DxWxH(mm)				570x260x717						
	Rack Case DxWxH(mm)	UPS Case			N/A						
		Battery Pack									
WEIGHT	Tower Case		90 kgs	35 kgs	93 kgs	38 kgs	38.5 kgs	55 kgs	55 kgs	55 kgs	
	Rack Case		18.3 kgs			N/A					
ENVIRONMENT	Operating Temperature				0~40°C						
	Relative Humidity				20~90% (NON-CONDENSING)						
	Noise Level				<55dB @ 1 Meter		<60dB @ 1 Meter				
INTERFACE	Smart RS-232				Software supports Windows family, Linux, Sun Solaris, IBM Aix, Compaq True64, SGI IRIX, FreeBSD, HP-UX, and MAC						
	SNMP (option)				Power management from SNMP manager and web browser						
	USB (optional)				Windows family and Mac OS						