

# AETES

## LCD SERIES UPS

*Double Conversion Technology*

*Possibility of extended back up times*

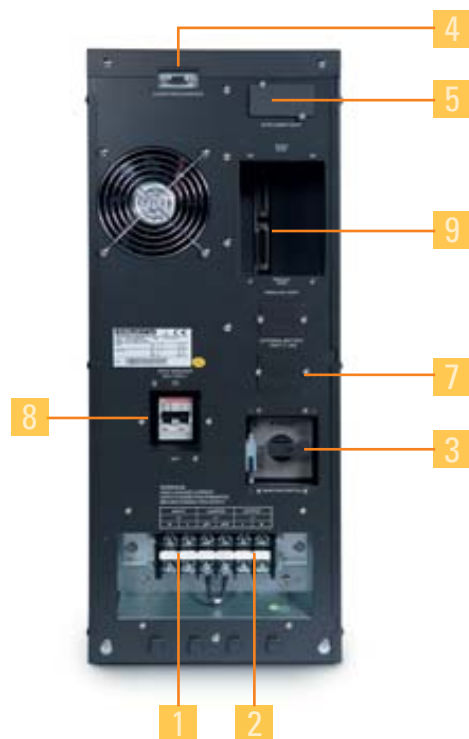
*Parallel capacity up to 3 equipments*

## 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.



## COMMUNICATIONS

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

(1) Optional

## 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%.

## 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	20000VA/14000W	
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				≥0.95			
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		12V/9Ah		Depending on the capacity of external batteries			
		Numbers of Batteries	20	Depending on the capacity of external batteries	20					
		Backup Time (Full Load)	8 minutes		5 minutes					
		Recharge Time	7 hours to 90%		8 hours to 90%					
		Charging Current (Max.)	2A	4.2A	2A	4.2A				
		Charging Voltage	274Vdc±1V							
	Rack Case	Battery Type	12V/7.2Ah				N/A			
		Numbers of Batteries	20							
		Backup Time (Full Load)	>8 minutes							
		Charging Current (Max.)	2A							
Charging Voltage	274Vdc±0.5V									
TRANSFER TIME	AC to DC						Zero			
	Inverter to Bypass						Zero			
INDICATOR	Status		Load Level / Battery Level / Battery Mode / AC Mode / Bypass Mode / Fault							
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	600x482.6x132		N/A					
		Battery Pack	600x482.6x132							
WEIGHT	Tower Case		90 kgs	35 kgs	93 kgs	38 kgs	38.5 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							