

# ETK UPS 5000-11000VA

## UPS for medical use

### GENERAL INFORMATION

**Total protection system in rack format** with online double conversion technology with sine wave, to filter all interference from or to the main power supply, and ensure maximum protection.

Permanent regulation of voltage and output frequency. Large tolerance of the input voltage that reduces the commutations of the battery model and prolongs the life of the battery.

Clear and simple Led interface, with acoustic alarms that immediately indicate the operating status of the UPS.

Wide range of communication protocols for integration into LAN networks or building management systems (BMS).



### TECHNICAL DATA

	ETK UPS5	ETK UPS7	ETK UPS9	ETK UPS11
<b>TECHNOLOGY</b>				
Sn	5000 VA	7000 VA	9000 VA	11000 VA
Pn	4500 W	5400 W	7200 W	9000 W
Architecture	VFI technology with double inline conversion and input power factor correction (PFC) and automatic bypass			
Redundant parallel function	1 + 1	1 + 1	1 + 1	1 + 1
<b>INPUT</b>				
Voltage	230 V (1 F) 181-280 V   (up to 100V at 50% load)			
Frequency	50 / 60 Hz +/- 10 % (self-selectable)			
Power Factor / THDI	> 0.99 / < 5%			
Input outlet	Terminals			
<b>OUTPUT</b>				
Voltage	230 V (1 F) selectable 200 / 208 / 220 / 240 V - 50 o 60 Hz ± 2% (± 0,05 Hz in battery modea)			
Power Factor	0,9 a 5000 VA	0,9 a 6000 VA	0,9 a 8000 VA	0,9 a 10000 VA
Efficiency	hasta el 93% online			
Overload capacity	hasta el 105% de forma continua   125% x 5 min   150% x 30 seg			
Output Connections	Terminales			
<b>BOARD</b>				
Standard autonomy	8	6	8	6
Tension	192 Vcc	192 Vcc	240 Vcc	240 Vcc
Charging time	< 6 h to recover 90% of capacity			

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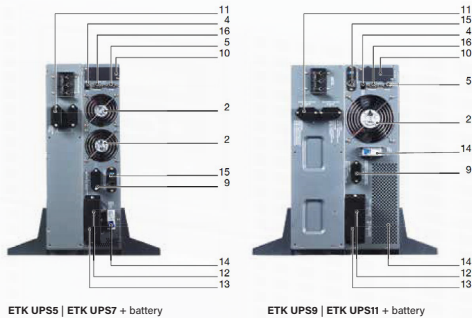
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<b>COMMUNICATION</b>				
Synoptic Panel	LCD menu	LCD menu	LCD menu	LCD menu
RS232 MODBUS Protocol	✓	✓	✓	✓
USB HID Protocol	-	-	-	-
WEB/SNMP (Ethernet J45 port)	✓	✓	✓	✓
COMM slot	✓	✓	✓	✓
Dry contact card	optional	optional	optional	optional
PO input (RJ11 port)	✓	✓	✓	✓
Parallel port	✓	✓	✓	✓
<b>ENVIRONMENT</b>				
Operating temperature	de 0 °C a +40 °C (de 15 °C a 25 °C (for maximum battery life)			
Temperature range Storage	de -15 °C a +50 °C (de 15 °C a 25 °C (for maximum battery life)			
Relative humidity	5-95% no condensation			
Sound level (ISO 3746)	< 55 dBA			

### DIMENSIONS AND WEIGHT

	ETK UPS5	ETK UPS7	ETK UPS9	ETK UPS11
Board Size (L x P x A)	177.5x670x440 mm	177.5x670x440 mm	261x623x440 mm	261x623x440 mm
UPS Rack Dimensions	2U+2U	2U+2U	3U+3U	3U+3U
Standard UPS Weight	15.5+40 kg	16+40 kg	19.5+66 kg	20+66 kg
Protection Index	IP20	IP20	IP20	IP20
EBM module dimensions (L x P x A)	89x608x440 mm	89x608x440 mm	130.5x623x440 mm	130.5x623x440 mm
EBM Rack module	2U	2U	3U	3U
EBM module weight	40 kg	40 kg	66 kg	66 kg

### CONNECTIONS

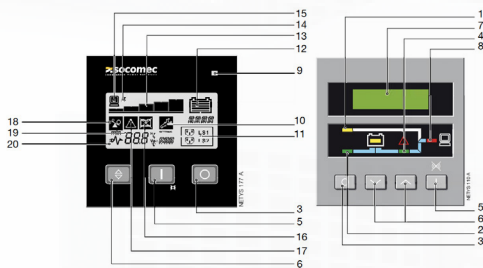


1. Power input outlet (IEC 320)
2. Fan
3. Output outlet (full power)
4. EPO external remote button (emergency shutdown)
5. RS232 interface (MODBUS protocol)
6. USB port
7. Input protection
8. Outlets (IEC 320 - 10 A)
9. Connector for external battery extension
10. Slot for optional communication cards
11. Connector for battery extension
12. Output terminals
13. Input terminals
14. Input Switch
15. RJ45 LAN Ethernet connector
16. Parallel port connector

### REGULATIONS

- IEC/EN 62040-1
- AS 62040.1.1
- AS 62040.1.2
- IEC/EN 62040-2
- AS 62040.2
- IEC/EN 62040-3

### CONTROL PANEL



1. Yellow LED is on. Operation in bypass mode
2. Green LED is on. Correct supply
3. Power off button
4. Green LED is on. Normal operation (inverter in operation)
5. ON/TEST button and acoustic warning override
6. Scroll button
7. Alphanumeric LCD screen
8. Green LED is on. Charge status
9. Charge status
10. Configuration
11. Programmable outputs
12. Battery status
13. Load level (5 phases)
14. Stop acoustic warning
15. Present load
16. Battery failure/battery replacement
17. General alarm
18. Overload
19. Input value
20. Normal mode/battery mode (flashing)

