

SAPOTEC ZP-Series

1 to 20 kVA



FOR MORE INFORMATIONEN VISIT
WWW.SAPOTEC.AT

Sapotec is proud to introduce the upgraded superior **ZP UPS** that can deliver clean, safe and regulated power supply to protect your critical mission equipment, so as to safeguard your valuable equipment and critical data from any abnormal power disturbances, such as surges, blackouts and lightning strikes. **ZP UPS** power capacity is available **from 1kVA to 3kVA 1/1** (1/1 stands for single phase input and single phase output); **from 6kVA to 10kVA 1/1** and **from 10kVA to 20kVA 3/1** (3/1 stands for three phase input and single phase output).

COMMON FEATURES:

- Strongest performance
- High Power Density
- Flexible Settings
- Internal components designed for stressing environment
- Highest efficiency with low heating dissipation
- Long run time Model without internal batteries and dedicated super charger



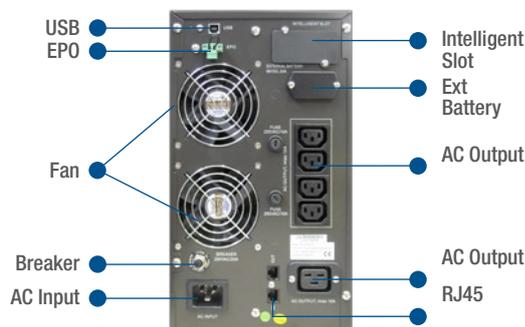
1kVA to 3kVA 1/1

STRONGEST PERFORMANCE

- DSP technology fully controlled
- Self monitoring and fault diagnosis
- Dual internal communications bus
- Lowest output voltage distortion

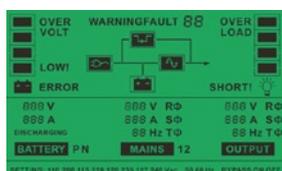
HIGH POWER DENSITY

- Wide input voltage range
- 0,8 output power factor
- Input power factor correction and lowest current distortion



FLEXIBLE SETTINGS

- Selectable configuration via LCD: online, ecomode, frequency/voltage converter mode (CVCF)
- EPO connector for remote emergency power off
- Standard external battery connector
- Simplified installation



- MENU:**
- OPERATION MODE
 - MIMIC
 - SETTINGS
 - STATUS/ALARM CODE

- INPUT MEASURES
- BATTERY CAPACITY
- OUTPUT MEASURES

STRONGEST PERFORMANCE

- DSP technology fully controlled
- LCD display multi language
- Real time event logs
- Dual internal communications bus
- Reduced audible noise

HIGH POWER DENSITY

- 0,9 output power factor
- Minimum acceptable input voltage 110 Vac

FLEXIBLE SETTINGS

- Selectable configuration via LCD: online, parallel, ecomode and CVCF
- Parallelable up to 4 units
- Standard mechanical maintenance bypass
- Optional internal insulation transformer
- EPO connector for remote emergency power off
- Standard external battery connector
- Back-feed protection

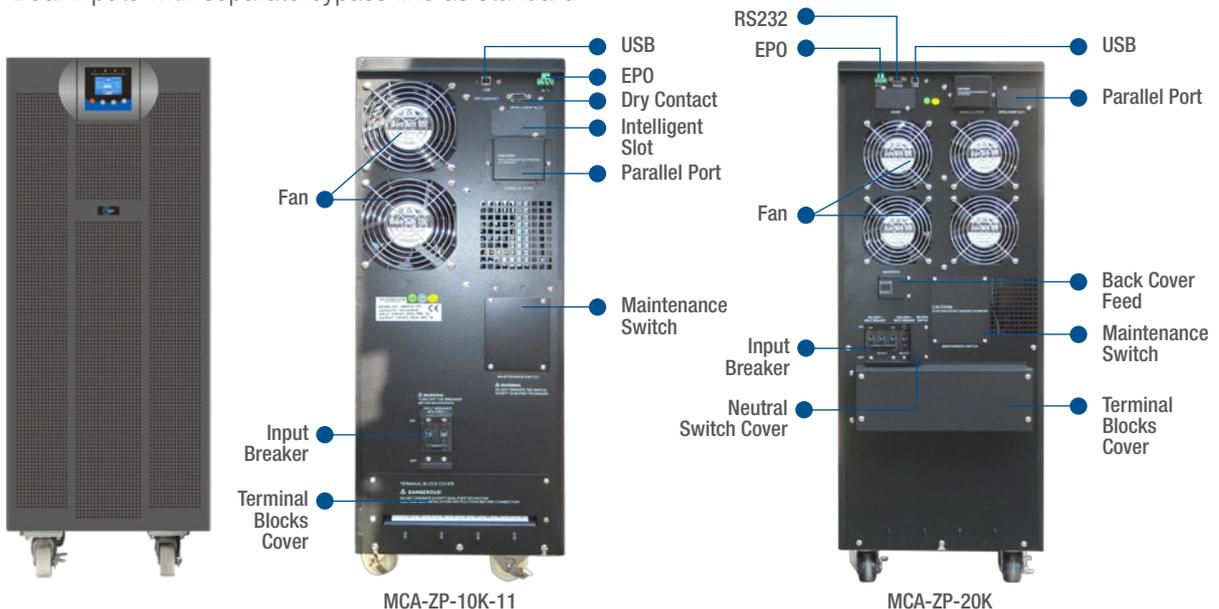


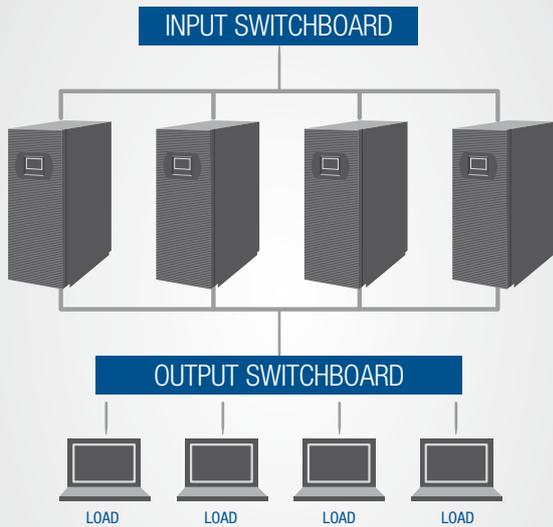
MENÚ:

- INPUT INFORMATION
- OPERATING STATUS
- BATTERY INFORMATION
- LOAD INFORMATION
- OUTPUT INFORMATION

The 10-20kVA threephase input and single phase output is an upgrade of the MCA-ZP-10K-11. They have the same technical performance with the following advantages:

- Input voltage autosensing (3ph or 1ph)
- Large cabinet suitable for more internal battery strings
- Dual inputs with separate bypass line as standard

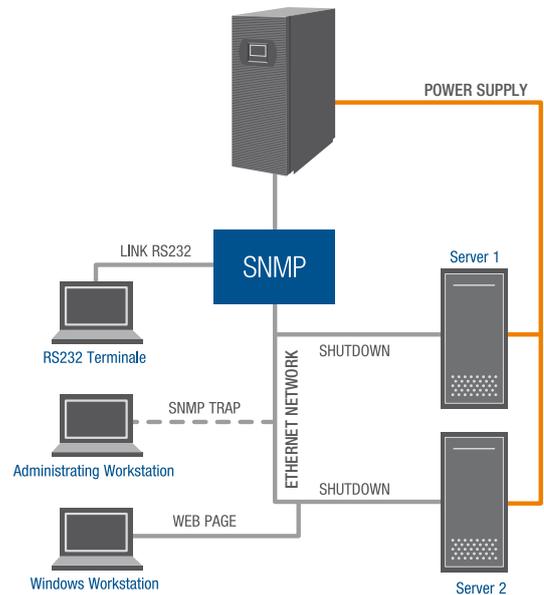




MCA-ZP 6kVA to 20kVA UPS in parallel configuration to meet most demanding power requirement. Increase power availability and flexibility.

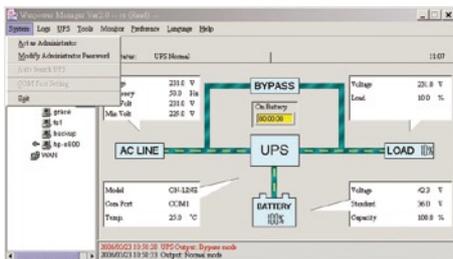
Parallel Redundancy feature provides economic power solution for system integration. Furthermore, parallel redundancy feature equally shares the load to maximize UPS performance, and more secure UPS continuous operation.

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.



INTERFACE OPTION:

SNMP CARD



RELAY CARD/AS400



MODBUS INTERFACE



- 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

- Multi-language versions: English, Germanic, 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.

| Technical Specification | | | | | | |
|------------------------------------|---|--|--------------|--|--------------|--|
| Model | ZP-1K | ZP-1K-KS* | ZP-2K | ZP-2K-KS* | ZP-3K | ZP-3K-KS* |
| Power Rating | 1000VA/800W | | 2000VA/1600W | | 3000VA/2400W | |
| INPUT | | | | | | |
| Rated Voltage | 220Vac/230Vac/240Vac | | | | | |
| Voltage Tolerance | 110VAC-300VAC | | | | | |
| Voltage Range - Line Low Transfer | 176Vac/165Vac/110Vac ($\pm 3\%$) based on load percentage 100%/75%/50% | | | | | |
| Voltage Range - Line High Transfer | 300Vac ($\pm 3\%$) | | | | | |
| Frequency Range | 45-55Hz / 54-66Hz | | | | | |
| THDi % | <5% with full load | | | | | |
| Power Factor | ≥ 0.99 (I/P:220V, FULL RCD LOAD) | | | | | |
| OUTPUT | | | | | | |
| Rated voltage | 200VAC**/208VAC**/220VAC/230VAC/240VAC | | | | | |
| Voltage regulation | $\pm 2\%$ | | | | | |
| Rated Frequency AC Mode | 50/60 Hz $\pm 0,2\%$ | | | | | |
| Crest Ratio | 3:1 | | | | | |
| Harmonic distortion | < 3% THD, linear load | | | | | |
| Output Waveform | Pure Sinewave | | | | | |
| Overload Capability | 105%-110%: 1 min; 110%-125%: 30 sec ; 125%-150%: 10 Sec; >150%: 1 sec | | | | | |
| Power factor | 0,8 | | | | | |
| BATTERIES | | | | | | |
| Type | Sealed lead acid battery, maintenance free | | | | | |
| Rating | 12V/7Ah | Depend on the capacity of external batteries | 12V/7Ah | Depend on the capacity of external batteries | 12V/7Ah | Depend on the capacity of external batteries |
| Numbers of batteries | 3 | | 8 | | 8 | |
| Back-up Time (typical load) | >10 minutes | | >18 minutes | | >10 minutes | |
| DC Voltage | 36VDC | | 96VDC | | 96VDC | |
| Charging time | < 5 hours | | | | | |
| GENERAL CHARACTERISTICS | | | | | | |
| Transfer Time (Inverter to bypass) | 0 ms | | | | | |
| Efficiency (online mode) | 88% | | 88% | | 88% | |
| Dimensions WxHxD (mm) | 145x220x400 | | 192x347x460 | | 192x347x460 | |
| Net Weight (kg) | 13 | 7 | 31 | 13 | 31 | 13 |
| Operating Temperature | 0°C ~ 45 °C | | | | | |
| Noise Level (@ 1m) | 50dB | | | | | |
| Humidity | 0-95% (no condensing) | | | | | |
| Interface standard via Smart USB | WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBSD, HP-UX, and MAC | | | | | |
| Interface for Intelligent Slot | SNMP / RS485 / AS400 Card/ ModBus | | | | | |
| Compliance | IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 62040-1-1, IEC 62040-2, IEC 60950-1 | | | | | |

* KS version are provided with battery extra charger

** Derate to 90% with 208Vac output voltage. Derate to 80% with 200Vac output voltage

Note: product specifications are subject to change without further notice.

| Technical Specification | | | | |
|------------------------------------|---|--|---------------|--|
| Model | ZP-6K | ZP-6K-KS* | ZP-10K-11 | ZP -10K-11-KS* |
| Power Rating | 6000VA/5400W | | 10000VA/9000W | |
| INPUT | | | | |
| Rated Voltage | 220Vac/230Vac/240Vac | | | |
| Voltage Tolerance | 110VAC-276VAC | | | |
| Voltage Range - Line Low Transfer | 176Vac/110Vac ($\pm 3\%$) based on load percentage 100%/50% | | | |
| Voltage Range - Line High Transfer | 276Vac ($\pm 3\%$) | | | |
| Frequency Range | 45-55Hz / 54-66Hz | | | |
| THDi % | <5% with full load | | | |
| Power Factor | ≥ 0.99 (I/P:220V, FULL RCD LOAD) | | | |
| OUTPUT | | | | |
| Rated voltage | 208VAC**/220VAC/230VAC/240VAC | | | |
| Voltage regulation | $\pm 1\%$ | | | |
| Rated Frequency AC Mode | 50/60 Hz $\pm 0,2\%$ | | | |
| Crest Ratio | 3:1 | | | |
| Harmonic distortion | < 0,2% THD, linear load | | | |
| Output Waveform | Pure Sinewave | | | |
| Overload Capability | 100%-110%: 5 min ; 110%-130%: 1 min ; 130%-150%: 10 sec ; >150%: 2 sec | | | |
| Parallel | Up to 4 | | | |
| Power factor | 0,9 | | | |
| BATTERY | | | | |
| Type | Sealed lead acid battery, maintenance free | | | |
| Rating | 12V/7Ah | Depend on the capacity of external batteries | 12V/9Ah | Depend on the capacity of external batteries |
| Numbers of batteries | 20 | | 20 | |
| Back-up Time (typical load) | > 10 minutes | | >10 minutes | |
| DC Voltage | 240Vdc | | | |
| Charging time | < 5 hours | | | |
| GENERAL CHARACTERISTICS | | | | |
| Transfer Time (Inverter to bypass) | 0 ms | | | |
| Efficiency (online mode) | >92% | | >94% | |
| Dimensions WxHxD (mm) | 260x708x560 | | 260x708x560 | |
| Net Weight (kg) | 86 | 34 | 92 | 37 |
| Operating Temperature | 0°C ~ 40 °C | | | |
| Noise Level (@ 1m) | < 50dB | | | |
| Humidity | 0-95% (no condensing) | | | |
| Interface standard via Smart USB | WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBSD, HP-UX, and MAC | | | |
| Interface for Intelligent Slot | SNMP / RS485 / AS400 Card/ USB / ModBus | | | |
| Compliance | IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 62040-1-1, IEC 62040-2, IEC 60950-1, ETS 300019-2-2 | | | |

* KS version are provided with battery extra charger

** Derate to 90% with 208Vac output voltage.

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| Technical Specification | | | | |
|------------------------------------|---|---|----------------|--|
| Model | MCA-ZP-10K-31 | MCA-ZP-10K-31-KS* | MCA-ZP-20K-31 | MCA-ZP-20K-31-KS* |
| Power Rating | 10000VA/9000W | | 20000VA/18000W | |
| INPUT | | | | |
| Rated voltage | 220VAC/230VAC/240VAC 1ph or 380/400/415 3ph (autosensing) | | | |
| 1 phase | Voltage Tolerance | 110VAC-276VAC | | |
| | Voltage range - Line Low Transfer | 176Vac/110Vac ($\pm 3\%$) based on load percentage 100%/50% | | |
| | Voltage range - Line High Transfer | 276Vac ($\pm 3\%$) | | |
| 3 phase | Voltage Tolerance | 190VAC-478VAC | | |
| | Voltage range - Line Low Transfer | 305Vac/190Vac ($\pm 3\%$) based on load percentage 100%/50% | | |
| | Voltage range - Line High Transfer | 478Vac ($\pm 3\%$) | | |
| Frequency Range | 45-55Hz / 54-66Hz | | | |
| THDi % | <5% with full load | | | |
| Power Factor | ≥ 0.99 (FULL LOAD) | | | |
| OUTPUT | | | | |
| Rated voltage | 208VAC**/220VAC/230VAC/240VAC | | | |
| Voltage regulation | $\pm 1\%$ | | | |
| Rated Frequency AC Mode | 50/60 Hz $\pm 0,2\%$ | | | |
| Crest Ratio | 3:1 | | | |
| Harmonic distortion | < 0,2% THD, linear load | | | |
| Output Waveform | Pure Sinewave | | | |
| Overload Capability | 100%-110%: 5 min; 110%-130%: 1 min ; 130%-150%: 10 sec; >150%: 2 sec | | | |
| Parallel | Up to 4 | | | |
| Power factor | 0,9 | | | |
| BATTERY | | | | |
| Type | Sealed lead acid battery, maintenance free | | | |
| Rating | 12V/7Ah | Depend on the capacity of external batteries | 12V/7Ah | Depend on the capacity of external batteries |
| Numbers of batteries | 24 + 24(optional) | | 24 + 24 | |
| Back-up Time (typical load) | > 6 minutes + 6 minutes(optional) | | > 6 minutes | |
| DC Voltage | 288Vdc | | | |
| Charging time | < 5 hours | | | |
| GENERAL CHARACTERISTICS | | | | |
| Transfer Time (Inverter to bypass) | 0 ms | | | |
| Efficiency (online mode) | >93% | | >93% | |
| Dimensions WxHxD (mm) | 350x890x650 | | 350x890x650 | |
| Net Weight (kg) | 175 | | 183 | |
| Operating Temperature | 0°C ~ 45 °C | | | |
| Noise Level (@ 1m) | 55dB | | | |
| Humidity | 0-95% (no condensing) | | | |
| Interface standard via Smart USB | WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBSD, HP-UX, and MAC | | | |
| Interface for Intelligent Slot | SNMP / RS485 / AS400 Card/ USB / ModBus | | | |
| Compliance | IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 62040-1-1, IEC 62040-2, IEC 60950-1 | | | |

* 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.

Intelligent power protection.

For power to flow, for voltage to remain and for energy to be produced.

INDIVIDUAL SOLUTIONS FOR QUALITY-CONSCIOUS CUSTOMERS

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