



## **Cetronic Power Solutions Ltd**

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ISO 9001 CERTIFIED ORGANIZATION



Certificate No. 13590

**True On-Line (double conversion) Uninterruptible Power Supply  
Complete with integral static and manual bypass switch**

## **Advanced Multi-Plus**

### **100KVA to 120KVA (0.9PF)**

**Three Phase Input / Three Phase Output**



- On-line double conversion
- Static and manual bypass
- Output power factor 0.9
- ZERO impact on source supply
- Input power factor >0.99
- Input current THD ≤3%
- Parallel/redundant operation
- LCD screen
- Superior battery management
- 50Hz or 60Hz operation
- Wide input voltage range
- Programmable output
- Various battery options
- RS-232/USB and contact interface
- SNMP communication options
- Free software

**ECONOMY MODE**  
Increases efficiency to 98%

## Specifications

<b>MODEL</b>	<b>AMP 100-33</b>	<b>AMP 120-33</b>
Rated Power (kVA)	100	120
Power (kW)	90	108

<b>INPUT</b>	
Nominal Voltage	380 - 400 - 415 Vac three-phase with Neutral
Voltage Range (@ full load)	± 20%
Frequency Range	40 - 72 Hz
Current Distortion	THDI ≤3%
Power Factor	>0.99

<b>BYPASS</b>	
Nominal Voltage	380-400-415 Vac three-phase with Neutral
Voltage Range	from 180V to 264 V selectable
Nominal Frequency	50/60 Hz
Frequency Range	±5%

<b>OUTPUT</b>	
Nominal Output Voltage	380-400-415 Vac
Static Stability	± 1%
Dynamic Stability	± 3% in 10ms
Waveform	Sinewave
Harmonic Distortion with linear load	≤ 1%
Harmonic Distortion with non-linear load	≤ 3%
Crest Factor	3:1
<i>Overload Capability at pF 0.8:</i>	
100% < Load < 115%	Unlimited
115% < Load < 125%	10 minutes
125% < Load < 150%	1 minute

<b>BATTERIES</b>	
Type	Sealed lead acid, maintenance free
Recharge Time	6 hours

<b>COMMUNICATIONS INTERFACES</b>	
RS-232 and Opto-Isolated Contacts	Yes
SNMP Solution	Optional (plug-in card)
Emergency Power Off (EPO)	Yes

<b>ENVIRONMENT</b>	
Operating Temperature	0 - 40°C (15 - 25°C recommended for batteries)
Relative Humidity	90% non-condensing

<b>GENERAL DATA</b>	
Colour	Dark Grey
Audible Noise	<65dBA @ 1 m
Enclosure Protection	IP20
Compliance	European Directives: L V 73/23/EC and 93/68/EC Low voltage directive EMC 2004/108/EC and 89/336/EC Electromagnetic compatibility directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2 Classification according to IEC 62040-3 (Voltage Frequency Independent) VFI - SS - 111

<b>WEIGHTS AND DIMENSIONS</b>		
Weight without internal batteries (kg)	460	480
Dimensions (hwd) (mm)	1900x750x855	

Specifications are subject to change without prior notice.

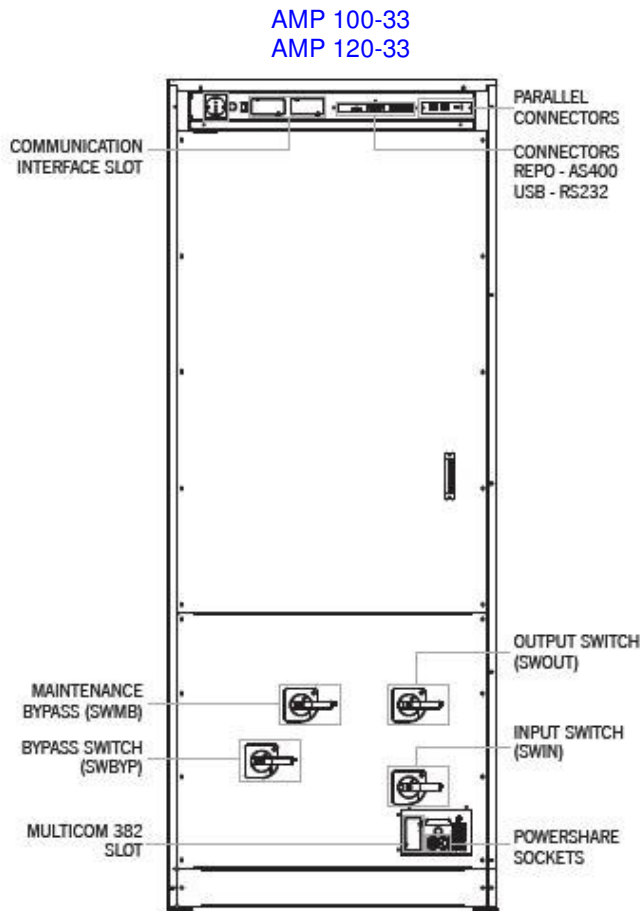
**Optional Extras**

- SNMP Network Interface Card
- Relay Card (Volt-free contacts)
- Parallel Redundant Operation
- Separate Bypass Input Supply
- Galvanic Isolation Transformers
- External Manual Bypass Switch
- Extended Battery Back-Up Times
- Service and Maintenance Plans



**Modes Of Operation**

- **ON-LINE** The inverter is on-line at all times to ensure the load is fully protected.
- **ECONOMY** The load is powered from the bypass. If the mains deviate outside tolerance, the load is transferred to inverter. When the mains return within tolerance, the load is re-transferred to bypass.
- **SMART ACTIVE** The UPS decides whether to operate in economy or on-line mode depending upon the quality of the mains supply.
- **STANDBY-OFF** The load is not powered until a mains failure occurs, at which time the load is powered by the inverter using battery power.



Above: Remote Alarm Panel  
Below: Software screenshot

