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ISO 9001 CERTIFIED ORGANIZATION



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

Advanced Multi-Module

10KVA to 30KVA

Three Phase Input / Three Phase Output



- On-line double conversion
- Static and manual bypass
- Input power factor >0.95
- IGBT power electronics
- Parallel and redundant operation
- LCD screen
- Superior battery management
- 50Hz or 60Hz operation
- Wide input voltage range
- Programmable output
- Various battery options
- Mimic panel indication
- RS-232 and contact interfaces
- SNMP communication options
- Free software

ECONOMY MODE
increases efficiency to 98%

Specifications

MODEL	AMM 10-33	AMM 15-33	AMM 20-33	AMM 30-33
Rated Power (VA)	10000	15000	20000	30000
Power (W)	8000	12000	16000	24000

INPUT				
Nominal Input Voltage	380-400-415Vac			
Voltage Range (@ full load)	320-480Vac			
Frequency	45 - 65 Hz			
Power Factor	0.95			
Input Current Distortion	<27%			
Maximum Input Current	18A	26A	35A	54A

BYPASS				
Nominal Voltage	400Vac			
Voltage Range	Selectable from $\pm 5\%$ to $\pm 25\%$			
Nominal Frequency	50/60 Hz			
Frequency Range	$\pm 5\%$			
Nominal Current	15A	22A	29A	44A

BATTERIES	
Type	Sealed lead acid, maintenance free
Recharge Time	6 hours

INVERTER OUTPUT	
Nominal Output Voltage	400V
Static Stability	$\pm 1\%$
Dynamic Stability	$\pm 5\%$ in 10ms
Waveform	Sinewave
Harmonic Distortion with linear load	$\leq 2\%$
Harmonic Distortion with non-linear load	$\leq 5\%$
Crest Factor	3:1
<i>Overload Capability:</i>	
100% < Load < 110%	5 hours
110% < Load < 125%	10 minutes
125% < Load < 150%	1 minute

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

ENVIRONMENT				
Operating Temperature	0 - 40°C (15 - 25°C recommended for batteries)			
Relative Humidity	<95% non condensing			
Protection	Thermal on system, rectifier, by-pass and inverter.			
Heat Dissipation (full load)	640W	960W	1280W	1920W

GENERAL DATA	
Colour	Light Grey
Audible Noise	<56 dBA @ 1m
Enclosure Protection	IP20
Compliance	EN 62040-1 EMC EN 62040-2 Directives 73/23 - 93/68 - 2004/108 EC EN 62040-3

WEIGHTS AND DIMENSIONS				
Weight (kg)	from 110 - 280	from 115 - 375	from 130 - 380	from 144 - 390
Dimensions (hwd) (mm)	1200 x 450 x 750			

Specifications are subject to change without prior notice.

Optional Extras

- SNMP Network Interface Card
- Relay Card (Volt-free contacts)
- Galvanic Isolation Transformers
- Other Input and Output Voltages
- Extended Battery Back-up Times
- Input Harmonic Filter (THD <5%)
- Parallel/Redundant Operation
- Remote Alarm Panel
- External Manual Bypass Switch
- 19" Rack Mount Versions (12U)
- Service and Maintenance Plans
- Separate Bypass Input Supply

Modes Of Operation

- **ON-LINE** The inverter is on-line at all times to ensure the load is fully protected.
- **STANDBY-ON** The load is powered from the bypass. If the mains deviates outside tolerance, the load is transferred to inverter. When the mains returns within tolerance, the load is re-transferred to bypass.
- **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.
- **STABILISER** UPS operates as a voltage stabiliser only. No battery back-up available.



1. Help/Language selection
2. Input/output measurements
3. Controls/settings/customisations
4. Event log
5. Buzzer reset
6. Time/date
7. Scroll back
8. Scroll forward

Buttons 7 and 8 are used to display detailed system control information.



Left: Remote Alarm Panel

Right: Software screenshot

