

## Multiplexer Power<sup>+</sup> SA 10kVA Technical Specifications

<b>Multiplexer SA</b>	3/3	3/1	1/1
<b>Topology</b>	True online battery, double conversation		
<b>Capacity</b>	10kVA/8kVA		
<b>Input</b>	3 phase + N + PE		
<b>Voltage</b>	3x(380V~415V)+N+PE (220V-240V) + N+PE		
<b>Voltage tolerance</b>	-27% and 20%		
<b>Current</b>	15A per phase, no inrush current at startup 45A, no inrush current		
<b>Power walk-in</b>	<60s		
<b>Input power factor</b>	1		
<b>Input THDI</b>	<5%		
<b>Earth leakage current</b>	3mA max.		
<b>Output</b>	3 phase + N + PE		
<b>Rated power</b>	10kVA / 8kW		
<b>Frequency tracking range</b>	±3 Hz		
<b>Slew rate</b>	1Hz/Sec		
<b>Voltage</b>	3x(400V)+N+PE		
<b>Static regulation</b>	± 1%		
<b>Regulation for unbalanced load</b>	± 1% for 100% unbalanced load		
<b>Dynamic response to 100% load step</b>	± 2%		
<b>Overload</b>	110% for 10 min; 125% for 60 s; 1000% for 1 cycle		
<b>Waveform</b>	Sinusoidal		
<b>THD</b>	Less than 2% for linear load		
<b>Load CF (max)</b>	6.1		
<b>DC/AC efficiency (nominal)</b>	98%		
<b>AC/AC efficiency (nominal)</b>	96%		
<b>Static Switch (bypass)</b>			
<b>Input connection</b>	Dual feed		
<b>General</b>			
<b>Maximum power dissipation (Po=8KW)</b>	384W (1300 BTU/h)		
<b>Ambient temperature</b>	operation: -10°C to +40°C Storage: -20°C to +60°C		
<b>Relative humidity</b>	95% max, non-condensing		
<b>Altitude</b>	1500 m without derating		
<b>Enclosure</b>	IP20		
<b>Cooling system</b>	Multi-fan with Speed Control (forced)		
<b>Acoustic noise (full load) at 1.5m distance</b>	47dba		
<b>MTBF</b>	250,000hh		
<b>Dimensions (mm)</b>	560(H) x 90(W) x 600(D)		
<b>Weight</b>	18kg		
<b>LCD display</b>			
<b>Input</b>	Voltage, frequency, current		
<b>Output</b>	Voltage, frequency, current		
<b>Batteries</b>	Voltage		
<b>Log (events memory)L</b>	Last 200 events		
<b>Communication</b>			
<b>Rg232</b>	Yes		
<b>Dry contact alarm</b>	Yes		
<b>SNMP</b>	Optional		
<b>Standards (Complies to)</b>			
<b>EMC</b>	IEC 62040-2, under EMC 2004/108/EC		
<b>Design</b>	IEC 62040-3		
<b>Safety</b>	IEC 62040-1, under LVD 2006/95/EC		
<b>Low magnetic field radiation</b>	EMF as per ICNIRP		
<b>Batteries (external)</b>			
<b>Type</b>	Sealed, valve-regulated, lead-acid		
<b>Number</b>	64 x 12V		

All specifications are typical and subject to change without prior notice

## Multiplexer Power<sup>+</sup> SA 20kVA, 30kVA, 40kVA Technical Specifications

<b>Multiplexer SA UPS</b>	20 kVA	30 kVA	40 kVA
<b>Topology</b>	True online battery, double conversation		
<b>Input</b>	3 phase + N + PE		
<b>Voltage</b>	3x(380V~415V)+N+PE		
<b>Frequency tolerance</b>	45-65 Hz		
<b>Voltage tolerance</b>	-27%/±20%		
<b>Power walk-in</b>	<60s		
<b>Power factor</b>	1		
<b>THDI</b>	<5%		
<b>Earth leakage current</b>	3mA max.		
<b>Output</b>	3 phase + N		
<b>Rated power</b>	10kVA / 16kW	30kVA/24kw	40kVA / 32kw
<b>Frequency tracking range</b>	±0.5, ±1, ±2, ±3, ±4Hz (selectable)		
<b>Slew rate</b>	1Hz/Sec		
<b>Voltage</b>	3x(400V)		
<b>Frequency</b>	50 Hz		
<b>Static regulation</b>	± 1%		
<b>Regulation for unbalanced load</b>	± 1% for 100% unbalanced load		
<b>Dynamic response to 100% load step</b>	± 2%		
<b>Overload</b>	110 % for 10 min; 125 % for 60 s; 1000 % for 1 cycle		
<b>Waveform</b>	Sinusoidal		
<b>THD</b>	Less than 2% for linear load		
<b>Load CF (max)</b>	6.1		
<b>DC/AC efficiency (nominal)</b>	98%		
<b>AC/AC efficiency (nominal)</b>	96%		
<b>Static Switch (bypass)</b>			
<b>Input connection</b>	Dual feed		
<b>General</b>			
<b>Maximum power dissipation (Po=8KW)</b>	666w (2274 BTU)	999W(3408BTU)	1332W (4544BTU)
<b>Ambient temperature</b>	-10°C to +40°C(operating), -20°C to +70°C (Storage)		
<b>Relative humidity</b>	95% max, non-condensing		
<b>Altitude</b>	1500 m without derating		
<b>Enclosure</b>	IP20		
<b>Cooling system</b>	Multi-fan with Speed Control (forced)		
<b>Acoustic noise (full load) at 1.5m distance</b>	54dBA	57dBA	57dBA
<b>MTBF</b>	250,000hh		
<b>Dimensions(Fx Wx D) (mm)</b>	660x480x580		
<b>Weight (electronic cabinet)</b>	50kg	59kg	68kg
<b>Communication</b>			
<b>Dry contact alarms</b>	Yes		
<b>SNMP / web</b>	yes		
<b>LCD display</b>			
<b>Input</b>	Voltage, frequency, current		
<b>Output</b>	Voltage, frequency, current		
<b>Batteries</b>	Voltage		
<b>Log (events memory)L</b>	Last 256 events		
<b>Standards (Complies to)</b>			
<b>EMC</b>	IEC 62040-2, under EMC 2004/108/EC		
<b>Design</b>	IEC 62040-3		
<b>Safety</b>	IEC 62040-1, under LVD 2006/95/EC		
<b>Low magnetic field radiation</b>	EMF as per ICNIRP		
<b>Batteries</b>			
<b>Type</b>	Sealed, valve-regulated, lead-acid		
<b>Number</b>	64x12V		
<b>Battery cabinet</b>	External		
<b>DC voltage</b>	± 432 V		

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## Multiplexer Power\* RM Technical Specifications

Multiplexer 19* UPS	10kVA	20kVA
Topology	True Online Battery, Double Conversion, VFI	
Unit Capacity	3 x (980V~415V) +N+PE	
DC/AC efficiency (nominal)	27%/+20%	
AC/AC efficiency (nominal)	3x 15A per module, no inrush current at startup	
INPUT	3x (980V~415V) +N+PE	
Voltage	27%/+20%	
Voltage Range	<60 Sec	
Current	45/65 Hz	
Power walk-in	0.99%	
Frequency	5%	
Power Factor	0.99%	
THDI	5%	
OUTPUT	3 phase +N	
RATED power	10kVA/8kW	20kVA/16kW
Frequency tracking range	±0.5, ±1, ±2, ±3, ±4Hz (selectable)	
Slew rate	1Hz/Sec	
Voltage	3x400 Vac +N	
Static regulation	±1%	
Regulation for unbalanced load	±1% for 100% unbalanced load	
Dynamic response to 100% load step	±2%	
Overload	110 % for 10 min, 125 % for 60 s; 1000 % for 1 cycle	
Waveform	Sinusoidal	
THD	Less than 2% for linear load	
Load CF (max)	6:1	
DC/AC efficiency (nominal)	Up to 98% at full load	
AC/AC efficiency (nominal)	Up to 96% at full load	
GENERAL		
Maximum Power Dissipation (Po=8KW)	333W (1361 BTU/h)	
Ambient temperature	-10°C to +40°C(operating); -20°C to +70°C (Storage)	
Relative humidity	95% max, non-condensing	
Altitude	1500m without derating	
Enclosure	IP20	
Cooling system	Multi-fan with Speed Control (forced)	
Acoustic noise (full load) at 1.5m distance	51dBA	
Dimensions(HxWxD) (mm)	193(4U) x 483 (19in) x 600 264(6U); 483(19in) x600	
Weight (approx.)	19.9kg 31.7kg	
STANDARDS (Complies to)		
EMC	IEC 62040-2, under EMC 2004/108/EC	
Design	IEC 62040-3	
Safety	IEC 62040-1, under LVD 2006/95/EC	
Low magnetic field radiation	EMF as per IEC/NIRP	
Batteries		
Type	Sealed, valve-regulated, lead-acid	
Number	6xK12V	
Battery cabinet	External	
DC voltage	± 432 V	

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## Multiplexer MegaV2 SA Technical Specifications

MEGA SA 25 kVA UPS	True Online Battery, Double Conversion, VFI
Topology	25 kVA / 25 kW
Unit Capacity	98 %
DC/AC efficiency (nominal)	96 %
AC/AC efficiency (nominal)	96 %
INPUT	
Voltage	3x400 Vac +N (230 Vac); 47-63 Hz
Voltage Range	-27 % and +20 %
Power Walk-In	<60
Power Factor	1
THDI	<5 %
Earth Leakage Current	3 mA max.
OUTPUT	
Rated Power	25 kVA / 25 kW
Frequency Tracking Range	±1, ±2, ±3
Slew Rate	1 Hz/sec
Voltage	3x400 V +N / 230 V; 50/60 Hz
Static Regulation	±1
Regulation for Unbalanced Load	±1% for 100 % Unbalanced load
Dynamic Response to 100% Load Step	2%
Overload	110 % : 10 minutes; 125 % : 60 seconds; 1000 % : 1 cycle
Waveform	Sinusoidal
THD	Less than 2% for linear load
Load CF (max)	6:1
Inverter efficiency % (nominal)	98
STATIC SWITCH	
Included	
GENERAL	
Maximum power dissipation (Po=25KW)	384 W (1300 BTU)
Ambient Temperature	-10 to +40 °C (operating) ; -20 to +70 °C (storage)
Relative Humidity	95 % max, non-condensing
Altitude	1500 m without derating
Enclosure	IP20
Cooling System	Multi-Fan with speed control (forced)
Acoustic Noise (full load) at 1.5m distance	47 dBA
MTBF	250,000 hrs
Dimensions (mm)	610(H) x 205(W) x 685(D)
Weight	61 kg
LCD DISPLAY	
Input	voltage, current
Output	voltage, frequency, current
Batteries	voltage
Log (events memory)	last 200 events
COMMUNICATION	
RS232 port	Yes
Alarm and shutdown monitor	Yes
SNMP link (optional)	optional
STANDARDS (Complies to)	
EMC	IEC 62040-2, under EMC 2004/108/EC
Design	IEC 62040-3
Safety	IEC 62040-1, under LVD 2006/95/EC
Low magnetic field radiation	EMF as per IEC/NIRP
BATTERIES (EXTERNAL)	
Type	Sealed, valve-regulated, lead-acid
Number	60x12V

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