

TECHNICAL SPECIFICATIONS

Conceptpower™ Maxi 100-120-160-200-250-300kVA

Uninterruptible Power Supply (UPS)

Three-phase, n+1 redundant

On-Line, Double-Conversion, VFI



Concept power – Maxi



TECHNICAL SPECIFICATIONS

Conceptpower-Maxi

100,120,160,200,250 and 300 kva (three phase input and output)

GENERAL DATA

Output Rated Power	kVA	100	120	160	200	250	300
Output Power Factor		0.9 - 1 (electrically regulated)					
Topology		On-Line, Double Conversion, VFI					
Parallel Technology		Distributed Parallel Architecture					
Redundancy n+1		High reliability, no limitation of paralleling					
Capacity Upgrade		Add your power as you grow (no limitation)					
Static and Maintenance Bypass		Standard					
Accessibility		Front and rear accessible for service and maintenance (no need for side or top access)					
Efficiency (Double Conversion)		Up to 96%					
Audible Noise With 100%/75% Load	dB(A)	69 / 63	69 / 63	73 / 70	73 / 70	73 / 70	75 / 72
Standards		EN 60950, EN 62040, EN 50091					
Input Data							
Input Voltage	V	3x480/277V+N, 3x400V/230V+N, 3x220/127V+N, 3x120/208V+N 3x440/220V+N					
Input Voltage Tolerance (ref to 3x400/230V)	V (%)	For Loads: <100%(-23%,+15%) <80%(-30%,+15%) <60%(-40%,+15%)					
Input Frequency	Hz	35 – 70Hz					
Input Power Factor		0.9 - 1 (electrically regulated)					
Input Current Form		Sinewave THDI = 5% at 100% load					
Inrush Current		Soft start					
Input Cabling		Hardwired					
Output Data							
Output Voltage		3x480/277V+N, 3/1x400V/230V+N, 3/1x220/127, 3/1x120/208V+N 3x440/220V+N					
Output Voltage Tolerance		+/- 1% (linear load), +/- 3% (non-linear load)					
Output Voltage Tolerance (Load Jumps 0-100-0%)		+/- 4%					
Output Frequency		50 or 60Hz					
Output Frequency Tolerance		+/- 0.1% (free-running), +/- 4% (with mains, adjustable)					
Crest Factor		3 : 1					
Overload		150% for 1min., 125% for 10min.					
Permissible Unbalanced Load		100% (all 3 phases regulated independently)					
Monitoring and Control Data							
Power Management Display (PMD)		With LCD, Mimic Diagram, Control					
Communication port (Smart Port)		Serial RS 232					
Communication port (Dry Port)		Volt-free relays					
SNMP		Yes					
Shutdown and Monitoring Software		Yes (Wavemon)					
Emergency Power Off (EPO)		Yes					

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POWER MANAGEMENT DISPLAY (PMD)

The user-friendly PMD consists of three parts the MIMIC DIAGRAM, CONTROL KEYS and LCD that provides the necessary monitoring information about the UPS.

MIMIC DIAGRAM

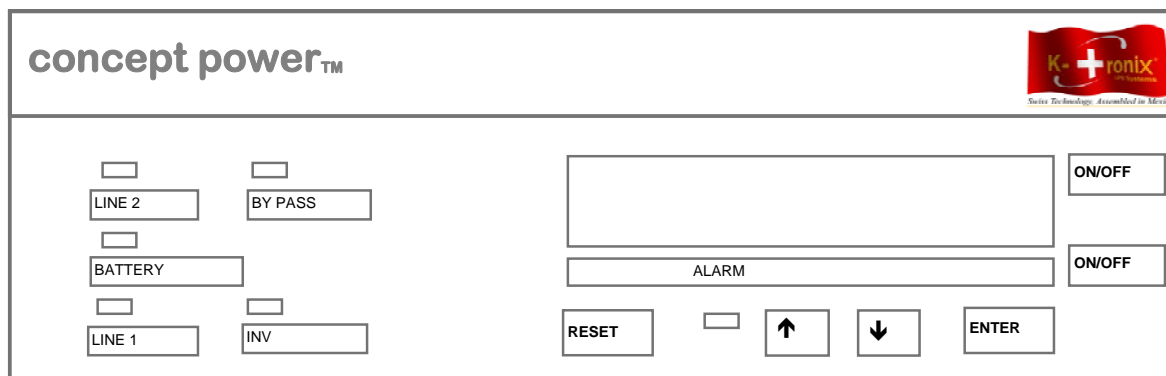
The mimic diagram serves to give the general status of the UPS. The LED-indicators show the power flow status and in the event of mains failure or load transfer from inverter to bypass and vice-versa the corresponding LED-indicators will change colour from green (normal) to red (warning). The LED's LINE 1 (rectifier) and LINE 2 (bypass) indicate the availability of the mains power supply. The LED's INVERTER and BYPASS if green indicate which of the two are supplying power to the critical load. When the LED-indicator BATTERY is lit it means that the battery due to mains failure is supplying the load. The LED-indicator ALARM is a visual indication of any internal or external alarm condition. At the same time the audible alarm will be activated.

PUSHBUTTONS

The pushbuttons serve to manage the UPS by performing commands. The 2xON/OFF pushbuttons serve to start-up or shutdown the UPS if pressed simultaneously. The pushbuttons UP and DOWN allow working through the PMD-menu. The RESET pushbutton serves to cancel the audible alarm in the event of a disturbance. If the alarm condition was only transient the LED-indicator ALARM would also extinguish otherwise it will remain on (red).

DISPLAY

The 2 x 20 character LCD simplifies the communication with the UPS. The menu driven LCD enables the access to the EVENT REGISTER, or to monitor the input and output U, I, f, P, Autonomy Time and other Measurement's, to perform commands like start-up and shut-down of INVERTER or load transfer from INVERTER to BYPASS and vice-versa and finally it serves for the DIAGNOSIS (SERVICE MODE) for adjustments and testing (for more details see the USER MANUAL of **conceptpower™**).



Power Management Display (PMD) of **conceptpower**.

OPTIONALS

Extended Battery Autonomies	In matching battery frames CBAT-30CS, CBAT- M
Remote Signalling Panel (RSP)	For UPS-Status indication
Parallel Configuration	A number of units may be paralleled for redundancy or capacity upgrade
Wavemon Software	For automatic shut-down and monitoring
SNMP – Adapter Card	For network management and remote monitoring
Input or Output Isolation Transformer	For special voltages or for galvanic isolation
Input Harmonic Filter	For Input Current THD < 5%
Battery Probe	For temperature dependent battery charge

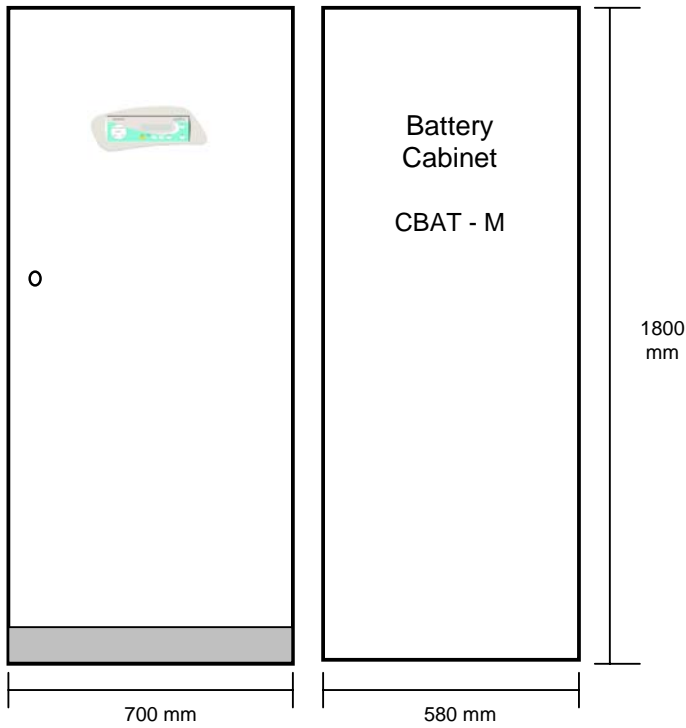
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MECHANICAL CHARACTERISTICS Maxi 40-80kVA

MODEL	KVA	100	120	160	200	250	300
Size Conceptpower Frame (WxHxD)	mm	700 x 1800 x 750			1200 x 1900 x 750		
Size Additional Battery Frame (WxHxD)		580 x 1800 x 750			(on request)		
Weight Conceptpower (Without batteries)		330	350	620	640	660	735

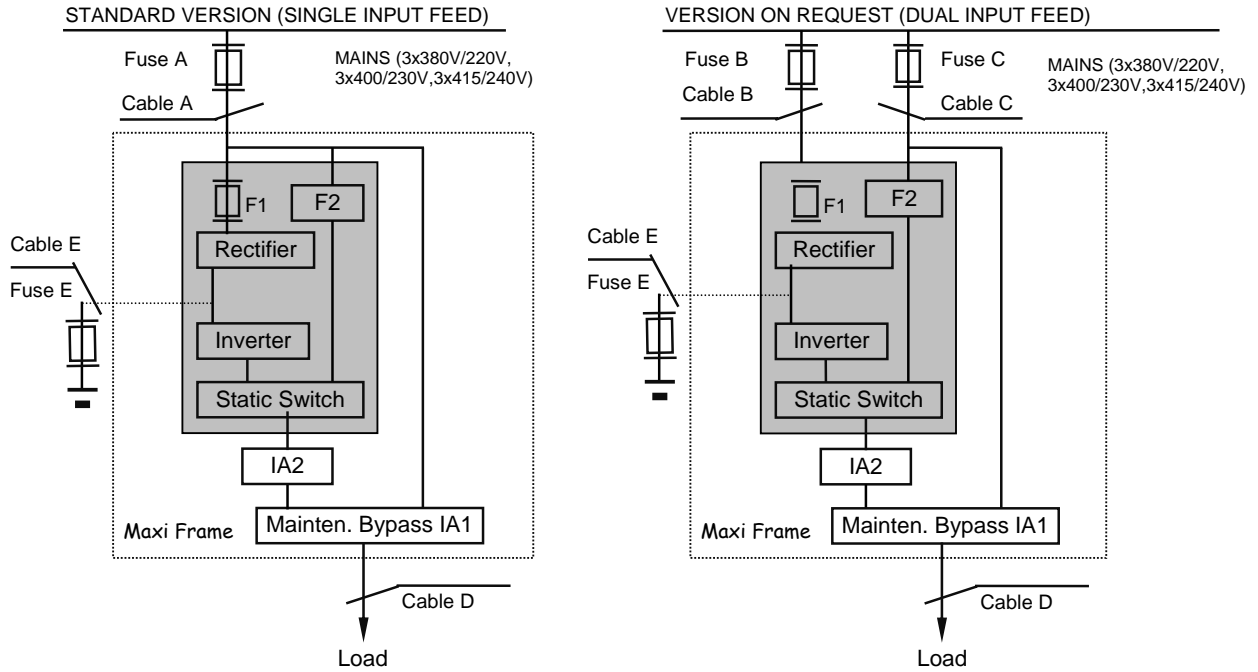
Conceptpower Maxi 100 y 120 kVA (Depth 750mm)



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Block Diagram Maxi



Cable Sections and Fuse Ratings recommended by European standards. Alternatively, local standards to be respected

Parallel Configuration for Redundancy and/or Capacity increase.

