

TECHNICAL DATA SHEET "B4033"

40 60 80KVA

3F_(in) - 3F_(out)

GENERAL INFORMATION

POWER (KVA)	40	60	80	
UPS typology	ON LINE – Double Conversion			
Nominal output power @ P.F. 0,8 (KVA)	40	60	80	
Nominal output power @ P.F. 1 (KW)	32	48	64	
Efficiency AC ÷ AC (%)	>90	>90	>90	
Heat dissipation at nominal load and voltage	-KW	3,55	5,33	7,11
	-Kcal	3053	4584	6115
UPS ambient temperature (°C)	0 ÷ 40			
BATTERY ambient temperature (°C)	0 ÷ +25			
UPS storage temperature (°C)	-10 ÷ +70			
BATTERY storage temperature (°C)	-10 ÷ +60			
Relative humidity non condensing (%)	<95			
Altitude (mt)	<1000 (Above See Level)			
Power derating for altitude > 1000mt	According "EN50091-3"			
Ventilation	FORCED			
Requested cooling air volume (mt3/h)	1200	1500	2100	
Audible noise level (according EN 50091)	<62 db			
Protection degree	IP 20			
Standard battery type lead acid (N° cells)	192		192	
Storage time of battery without recharge (@ 25°C)	3 months			
EMC Compatibility	According to "EN 50091-2"			
Paint	RAL 7035			
Accessibility	Front and top access for service			
Static load without battery (Kg/m2)	730	844	958	
Input/output cable connection	Bottom Side			
Transport	Base provided for forklift handling			
Transport mechanical stress	According to "EN50091-1"			
Design standard	According to "EN50091-1"			
Free contact interface	On request			
Serial communication interface	RS232-RS485 (SNMP-Option)			
Parallel configuration	To increase output power up to 6 UPS or 5+1 redundant			

RECTIFIER

POWER (KVA)	40	60	80
Nominal Input Voltage (Vac)	380 ÷ 415 +/- 10% (Selectable)		
Input Frequency (Hz)	50 - 60 +/- 5%		
Input Power Factor (@ 380Vac)	>0,8	>0,8	>0,8
DC Output Voltage Accuracy (%)	+/- 1		
DC Output Voltage Ripple (With battery connected) (% rms)	< 1		
Total harmonic distortion rejected into the mains (%)	<32	<32	<32
Battery Recharging Characteristic	IU (DIN 41773)		
Temperature Voltage Compensation	On Request		
Maximum Recharging Current @ nominal load (A)	15	20	20
Rectifier Bridge Type	Three Phase Full bridge rectifier		
Input protection	Fast fuses		
Nominal Current Absorbed from Mains (@ nominal load and Battery in floating) (A)	66	100	133
Maximum Current Absorbed from Mains (@ nom. load and max. recharging current) (A)	79	116	149

INVERTER

POWER (KVA)	40	60	80
Inverter Bridge	IGBT (High Frequency Comm.)		
Nominal Output Power @ P.F. 0,8 (KVA)	40	60	80
Nominal Output Power @ P.F. 1 (KW)	32	48	64
Nominal Output Voltage (Vca)	380 ÷ 415 (Selectable)		
Output Voltage Stability (%)			
- Static (Balanced Load)	+/- 1		
- Static (Unbalanced load 100%)	+/- 2		
- Dynamic (Step Load 0÷100%÷0)	+/- 8		
- Output Volt. Recovery Time (after step load)	Within 40 msec		
Phase Angle (°el)			
- Balanced Load	+/- 1		
- 100% Unbalanced Load	+/- 2		
Output Frequency (Hz)	50 – 60 (Selectable)		
Output Frequency Stability (Hz)			
- Free Running Quartz Oscillator	+/- 0,001		
- Inverter Sync. with Mains	+/- 2 (Adjustable)		
Nominal Output Current (A)			
- @ P.F. 0,8	37	87	116
- @ P.F. 1	46	55	93
Overload Capability (%)	125% for 10', 150% for 1' 200% for 100 msec		
Short Circuit Current (A)	92	110	186
Short Circuit Characteristic	Elect. short circuit protection, current limited at 2 times nominal current		
Selectivity	Within ½ cicle (Fuse gl 20% In)		
Output Waveform	Sinusoidal		
Output Harmonic Distortion (%)			
- Linear Load	<2		
- Non Linear Load	<5		
Crest Factor	3:1		
Max. DC current absorbed from inverter during battery discharge (@ 326Vdc and NP) (A)	106,7	160	213,4

BY PASS

Automatic Static By-Pass	Electronic Thyristor Switch
Nominal Voltage (Vac)	380 ÷ 415 (Selectable) +/-10%
Nominal Frequency (Hz)	50 – 60 (Selectable) +/-5
Transfer Inverter ÷ Static By-Pass	In case of : <ul style="list-style-type: none"> -Test inverter -Inverter failure -Input inv. Volt. out of limit -Output inv. volt. out of limit
Retransfer Static By-Pass ÷ Inverter	Automatic or Manual (Selectable) Block on mains after 6 commut. in 2min
Overload Capability	-150% Continously -200% For 1 minute -2000% For 1 Cicle
Manual By-Pass	With electric security and without interruption

ALARMS,CONTROLS and SIGNALS

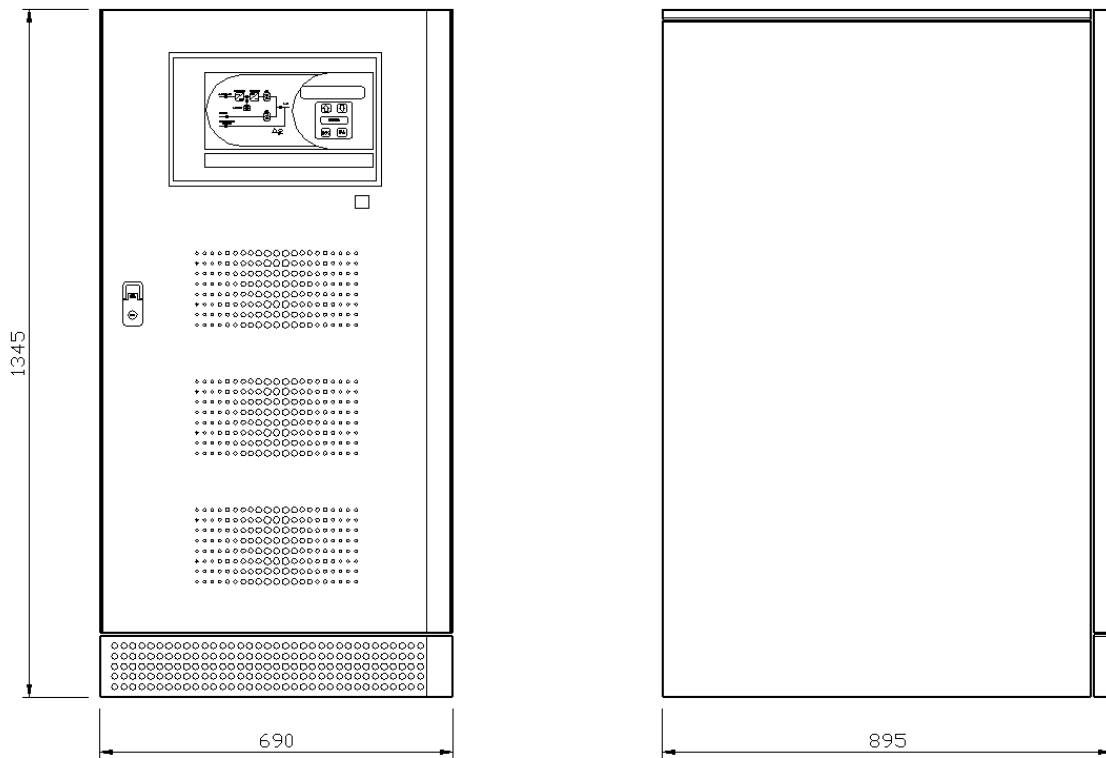
ON THE “SYSTEM CONTROL PANEL” :

- Synoptic diagram showing : power flow,circuit breaker status and alarms
- Battery test indicator
- LCD display
- Keyboard

OPTIONS

1. Free contact remote alarms (FS1418 ARC)
2. Remote System control Panel (type AS224)
3. Parallel configuration
4. Battery Temperature Voltage Compensation

Dimensions:



Weight:

40KVA = 389kg

60KVA = 450kg

80KVA = 511kg

