

PREMIER 33 Series, 40:60:80kVA UPS System

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
	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 (m)	<1000 (Above See Level)		
Power de-rating for altitude > 1000mt	According "EN50091-3"		
Ventilation	FORCED		
Requested cooling air volume (m ³ /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	192
Storage time of battery without recharge (@ 25°C)	3 months		
EMC Compatibility	According to "EN 50091-2" (CE Label)		
Paint	RAL 9001		
Accessibility	Front and top access for service		
Static load without battery (kg/m ²)	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 redundancy		

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)		
Battery 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 charge) (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 (Vac)	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	58	87	116
- @ P.F. 1	46	70	93
Overload Capability (%)	125% for 10' 150% for 1' 200% for 100 ms		
Short Circuit Current (A)	92	140	186
Short Circuit Characteristic	Elect. short circuit protection, current limited at 2 times nominal current		
Selectivity	Within ½ cycle (Fuse gl 20% In)		
Output Waveform	Sinusoidal		
Output Harmonic Distortion (%)			
- Linear Load	<2		
- Non Linear Load	<10		
Crest Factor	3:1		
Max. DC current absorbed from inverter during battery discharge (A) (@ 320Vdc and NP)	107	160	213

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 : -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 commutations in 2 min
Overload Capability		-150% Continuously -200% For 1 Minute -2000% For 1 Cycle
Manual By-Pass		With electric security and without interruption

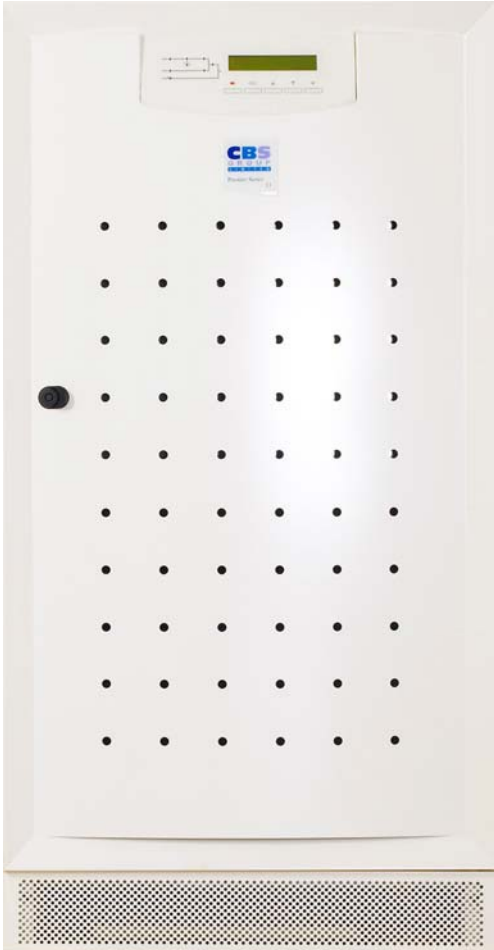
Alarms, Controls and Signals:

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
2. SNMP Adaptor
3. Parallel Configuration
4. Battery Temperature Voltage Compensation



- ◇ Online double conversion technology
- ◇ Digital Signal Processor implementing full digital control
- ◇ High quality output power, provided under any condition of input power and loads
- ◇ Complete filtering of main power noise
- ◇ Stable output frequency, independent from input frequency
- ◇ Full access from the front and top for maintenance
- ◇ Up to 10 minutes autonomy with the internal batteries
- ◇ Integrated advanced self-diagnostic program
- ◇ Step-by-step procedures described on the LCD display for ease of use
- ◇ Results of electrical measurement, alarm, work condition, event log and battery state are displayed real time on the LCD front panel
- ◇ Mimic flow display to show the operating status of the UPS
- ◇ Battery test included as standard
- ◇ Parallel redundant configurations of up to six units

Dimensions:

690 Width, 870 Depth, 1350 Height (mm)

Weight:

40KVA=389kg

60KVA=450kg

80KVA=511kg