



C Series UPS is a three phase transformer-less online double conversion UPS with large touch screen 7.0 display and front access cabinets.

FEATURES

Clean power

Transformerless online double conversion UPS with sine wave output
Power factor 1.0 output
Power factor corrected conversion minimizes input current THD to less than 3%

Low energy consumption and cost of ownership

Low energy consumption with max efficiency of up to 94%
High input power factor of 0.99% minimizes energy consumption
ECO Mode available for increased energy savings

Advanced battery management

Intelligent three-stage charging
LCD displays estimated battery runtime and tests for battery capacity

Flexible and reliable

Dual Input – static and manual (maintenance) bypass
Wide input range is compatible with low grid or generator voltage
Parallel up to 4 units with common battery
Synchronized transfer to bypass for all parallel units
Redundant dual control modules
UPS management PC software - Muser 5000
Large touch screen 7.0 display

Options

External battery cabinets

Dry contact relay card
SNMP card

TRANSFORMERLESS ONLINE DOUBLE CONVERSION UPS

C Series UPS

SPECIFICATIONS

50 - 300 kVA 1.0 PF 208 Vac 3Ph

Model	C33050A-E D7	C33060A-E D7	C33080A-E D7	C33100A-E D7	C33120A-E D7	C33160A-E D7	C33200A-E D7	C33250A-E D7	C33300A-E D7
Capacity kVA	50	60	80	100	120	160	200	250	300
Power kW	50	60	80	100	120	160	200	250	300
AC Input	dual								
Charge current	40 A	40 A	60 A	80 A	80 A	100 A	140 A	160 A	200 A
Weight kg	225	230	270	340	380	400	715	860	880
H x W x L mm	1200 x 600 x 850				1600 x 600 x 850	2000 x 600 x 850		2000 x 1200 x 850	

AC Input

Rated voltage	208/120 Vac or 220/127 Vac (3Ph + N+ PE)
Voltage range	+20%, -25% (96 - 150V or 102 - 159V), full load
Input power factor	≥0.99
input frequency	40 - 70 Hz
THD	≤3 % 100 % non-linear
Bypass range	V max: +25% (+10%, +15%, +20%), V min: -40% (+10%, +20%, +30%) Hz: ±10% (optional)

AC Output

Rated voltage	208/120 Vac or 220/127 Vac (3Ph + N+ PE)
Power factor	1.0
Voltage regulation	±1%
Efficiency	Up to 94 %
Frequency utility mode	±1% / ±2% / ±4% / ±5% / ±10% of the rated frequency (optional)
Frequency battery mode	50/60 Hz ± 0.1%
THD	≤2 % linear load, ≤5 % non-linear load
Overload AC mode	<110% 60 min, <125% 10 min, <150% 1 min, >150% bypass
Overload bypass mode	135% at ≤ 30°C or 125% at ≤40°C: continuously, 1000% for 100ms then shutdown

External Battery Requirements

DC nominal	+/- 132Vdc 1.0PF, (optional: +/- 96Vdc 0.8PF, +/-108/120Vdc 0.9PF, +/-144/156Vdc 1.0PF)
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General Specifications

Parallel operation	Up to 4 cabinets
Color display	177 mm / 7 inch Touch Screen
Communication	(2) ECU control slots [parallel, LBS, LED], (1) dry contact slot [EPO, switch outs, inputs, BP feedbacks, dry contacts], (1) monitor slot [batt temp(2), CAN adjust, CAN bms, USB, RS232, RS485(2), LCD, NET], (1) intelligent slot [optional SNMP]
PC software	MUSER 5000
Temperature	Operating 0 to +40° C
Altitude	< 1500 M
Humidity	≤95 % non-condensing
Safety	IEC62040-1-1
EMC	IEC62040-3, IEC61000-4-2, IEC61000-4-3, IEC610004-4, IEC610004-5, IEC610004-6, IEC610004-8