

# C Series UPS

## 10 – 80 kVA 208 Vac 3Ph



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

## FEATURES

### Clean power

Transformerless online double conversion UPS with sine wave 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% (93% at 25% load)  
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  
UPS management PC software - Muser 4000

### Power Options

Internal battery configurations  
Matching external battery cabinets

### Management Options

Dry contact relay card  
SNMP card

# TRANSFORMERLESS ONLINE DOUBLE CONVERSION UPS

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### 10 – 80 kVA 208 Vac 3Ph

## SPECIFICATIONS

External Battery Model Internal Battery Model	C 33010A C 33010A-NB	C 33015AD C 33015AD-NB	C 33020AD C 33020AD-NB	C 33030AD	C33040AD	C 33050AD	C 33060AD	C 33080AD
Capacity kVA	10	15	20	30	40	50	60	80
Power kW	9	13.5	18	27	36	45	54	72
AC Input	single	dual						
Heat dissipation	440 W	575 W	800 W	1150 W	1600 W	2400 W	2400 W	3200 W
Charge current	6 A	10 A	10 A	20 A	20 A	30 A	30 A	40 A
Internal battery capacity for NB model	24 x 12V 38AH			not applicable				
Weight Kg w/o battery	123	126	127	156	158	186	189	195
H x W x L mm	1200 x 600 x 780					1600 x 600 x 780		

\*Batteries not included.

### AC Input

Rated voltage	208/120 Vac or 220/127 Vac (3 phase, 4 wire and ground)
Voltage range startup	+25 %, -20 % (166 - 260V or 176 - 275V), full load
Voltage range operating	-40 %, +25 % (125 - 260V or 132 - 275V) , <50 % load
Input power factor	≥0.99
input frequency	40 - 70 Hz
THD	<3 % 100 % non-linear
Bypass range	Max voltage: +25 % (default: +15 %), Min voltage: -40 % (default: -20 %), Frequency: ±10% (default: ±1%)

### AC Output

Rated voltage	208/120 Vac or 220/127 Vac (3 phase, 4 wire and ground)
Voltage regulation	±2 % balanced load, ±5 % for 100 % unbalanced load
Efficiency	Up to 94 %
Output frequency	synchronous with the network / 50/60 Hz ± 0.2 % battery mode
THD	≤2 % linear load, ≤5 % non-linear load
Crest factor	3:1
Overload online mode	≤110 % 60 min, ≤125 % 10 min, ≤150 % 1 min, ≥150 % to bypass
Overload battery mode	≤110 % 10 min, ≤125 % 1 min, ≤150 % 5 sec, ≥150 % shutdown

### External Battery Requirements

DC nominal	+/- 144 Vdc
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### General Specifications

Parallel operation	Up to 4 units
Communication	RS232, RS485, USB, expansion slots (2), parallel (2), dry contact, remote emergency power off, battery temp
Protocol / Software	Megatec, MODBUS / MUSER 4000 PC software
Temperature	Operating 0 to +40° C
Altitude	< 1500 M
Humidity	≤95 % non-condensing
Standard	conforms to UL 1778

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