



# Professional true double conversion 6.0 kVA & 10.0 kVA

Output Power Factor 0.9 - Rack/Tower 2 in 1 Design - LCD Display - Perfect Battery Pack

## ECU Series High-Level Online UPS

6.0 kVA / 10.0 kVA – Output Power Factor 0.9 – Adjustable Charging Current  
Rack/Tower 2 in 1 Design - LCD Display - Single phase - With Battery Pack Solution

Ideal for medium-density power protection demand, the ECU series provides Rack/Tower form factor to fit diverse environment. Despite its compact footprint, this UPS incorporates internal battery packs which can be accessed via the front panel for maintenance checks and replacement without removing the UPS from its rack mounting. The LCD display panel can be easily shifted by pressing buttons to suit the installation format, vertically stand or flatly rack mount. Besides, IT personnel can manage equipment well from learning remaining backup time information via LCD display.

### Features & Advantages

- True Double-Conversion
- Output power factor 0.9
- Rack/Tower 2 in 1 Design
- Easy-Shift LCD display
- Professional battery box can be used as a rack and also as a tower
- Battery Brand name: Yuasa
- The ECU Series works only with external battery pack and offers more current for charging. The charging current is adjustable. (1/2/4/8 A)
- ECO and advanced ECO mode for energy saving.
- Output voltage regulation < 1%
- Higher output crest ratio perfect for generator and compressor
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot swappable battery design
- Reduce your cost and saving up to 250,00 € per UPS solution
- Warranty: UPS 3 years, Battery Pack 2 years
- Replacement in advance in service case
- Warranty Extension and Express Service are available



6.0 / 10.0 kVA Tower with Battery Bank



6.0 / 10.0 kVA Rack



6.0 / 10.0 kVA rear view



Battery Pack rear view

### Battery Bank for ECU Series 6.0 & 10.0 kVA UPS



EBB.240/9RT (580 x 438 x 133 mm 3U)



EBB.240/18T (592 x 250 x 576) Tower  
EBB.240/27T (830 x 250 x 576) Tower

Battery Box	Battery Type	Batteries	Backup Time 100% Load (Min)
EBB.240/9RT	12V / 9Ah	20 pcs	8.0 Min (6.0 kVA UPS)
EBB.240/9RT	12V / 9Ah	20 pcs	3.0 Min (10.0 kVA UPS)

EBB.240/9RT: Suitable for the ECU series 6.0/10.0kVA UPS

Battery Bank Voltage : 240V

Backup Time: Please see the following Backup Time Table

RT: Suitable for the ECU series 6.0/10.0kVA Rack & Tower UPS, 2 in 1 design

Battery Box	Battery Type	Batteries	Backup Time 100% Load (Min)
EBB.240/18T	12V / 9Ah	40 pcs	37.0 Min (6.0 kVA UPS)
EBB.240/18T	12V / 9Ah	40 pcs	13.0 Min (10.0 kVA UPS)
EBB.240/27T	12V / 9Ah	60 pcs	49.0 Min (6.0 kVA UPS)
EBB.240/27T	12V / 9Ah	60 pcs	33.0 Min (10.0 kVA UPS)

EBB.240/18T: Suitable for the ECU series 6.0/10.0kVA and EPR TW series UPS

EBB.240/27T: Suitable for the ECU series 6.0/10.0kVA and EPR TW series UPS

Battery Bank Voltage : 240V

Backup Time: Please see the following Backup Time Table

## Backup Time Table for ECU Series 6.0 & 10.0 kVA UPS

UPS Type	Battery Box	Backup Time with Load (Min)	
		100%	75%
ECU.1106.RL Rack 6.0 kVA	+ 1x EBB.240/9RT (20x 9Ah Batteries)	8	19
	+ 2x EBB.240/9RT (40x 9Ah Batteries)	37	46
ECU.1106.TL Tower 6.0 kVA	+ 1x EBB.240/27T (60x 9Ah Batteries)	49	56
	+ 20 x 17Ah Batteries	25	40
ECU.1110.RL Rack 10.0 kVA	+ 20 x 26Ah Batteries	44	61
	+ 20 x 40Ah Batteries	80	111
ECU.1110.TL Tower 10.0 kVA	+ 20 x 65Ah Batteries	130	178
	+ 20 x 100Ah Batteries	185	263
ECU.1110.RL Rack 10.0 kVA	+ 1x EBB.240/9RT (20x 9Ah Batteries)	3	6
	+ 2x EBB.240/9RT (40x 9Ah Batteries)	13	28
ECU.1110.TL Tower 10.0 kVA	+ 1x EBB.240/27T (60x 9Ah Batteries)	33	43
	+ 20 x 17Ah Batteries	9	16
ECU.1110.TL Tower 10.0 kVA	+ 20 x 26Ah Batteries	20	29
	+ 20 x 40Ah Batteries	38	56
ECU.1110.TL Tower 10.0 kVA	+ 20 x 65Ah Batteries	70	104
	+ 20 x 100Ah Batteries	104	144

## Specification

Model	ECU.1106.RL/TL	ECU.1110.RL/TL
Phase	Single Phase with ground	Single Phase with ground
Capacity	6.0 kVA / 5.4 kW	10.0 kVA / 9.0 kW

## Input

Voltage Range	176-300 VAC at 100% load 110-300 VAC at 75% load
Frequency Range	46Hz - 54Hz or 56Hz - 64Hz
Power Factor	≥ 0.99 @ Nominal Voltage (100% Load)

## Output

Output Voltage	200/208/220/230/240 VAC
Voltage Regulation	± 1%
Frequency range (Synchronized Range)	46Hz - 54Hz or 56Hz - 64Hz
Frequency Range (Batt. Mode)	50Hz ± 0.1Hz or 60Hz ± 0.1Hz
Current Crest Ratio	3:1 (max.)
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 8% THD (Non-linear Load)
Transfer Time	Line mode to Bat. mode Bat. mode to Line mode Bypass to Inverter Inverter to Bypass
Waveform (Batt. Mode)	Pure Sinewave

## Efficiency

AC Line Mode	90%
Battery Mode	88%
ECO Mode	96%

## Battery

Long-Run Model	Battery Type / Numbers	Battery Pack Voltage: 240 V Nukbers depending on the capacity of external batteries
	Charging Current (max.)	4.0 A
	Charging Voltage	273 VDC

## Indicators

LCD Display	UPS Status, Load Level, Battery level, Input/Output Voltage, Discharge Timer and Fault conditions
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## Alarm

Battery Mode	Sounding every 4 seconds
Low Battery	Sounding every second
Overload	Sounding twice every second
Fault	Continuously sounding

## AC Input & Output Connectors

AC Input Connector	Terminal	Terminal
AC Output Connector	Terminal	Terminal

## Standards

IEC 62040-1 (Safety)	YES
IEC 62040-2 (EMC)	YES
CE	YES

## Physical dimensions

Long-Run Dimension (mm)	580 (D) x 438 (W) x 133 (H) (3U)	6680 (D) x 438 (W) x 133 (H) (3U)
Model Net Weight (kgs)	17	20

## Environment

Humidity	0-95% RH @ 0-40°C (non-condensing)
Noise Level	Less than 58dBa @ 1 Meter

## Management

Smart RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC
Optional SNMP	Power management from SNMP manager and web browser

*\*Product specifications are subject to change without further notice.*

*If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.*