

PowerPro EF 300 Compact Series

Three Phase Input & Output Online Transformerless UPS
10kVA – 30kVA

>> Compact

>> Eco-Friendly

>> Intelligent



The PowerPro EF Compact 300 series utilises 3 level topology and control system and is a combination of BPC's advanced Digital Signal Processor (DSP) control technology and a firm pursuit of a green manufacturing philosophy, resulting in a UPS design utilising the latest generation power components and improved conversion circuit topology in order to optimise maximum efficiency.

With minimum space, fewer components and controlled levels of noise pollution, it has a significantly reduced environmental impact. Therefore, with the Eco-Friendly UPS range it is feasible to design a UPS with reduced carbon footprint whilst achieving clean, continuous power for industrial and computing applications.

Features:

- Compact space saving design
- 3 Level topology
- Advanced graphic backlit display
- Low input current total harmonic distortion (THD)
- High input power factor
- High efficiency up to 94%
- Cold start function
- Output short circuit and overload protection
- External REPO switch input
- 192 events memory (up to 14,400 alarms)
- Automatic battery test and remaining battery time indicator
- Temperature compensated charge system (optional)
- 1 RS232 serial port and 3 dry contact outputs (+2 optional)
- Optional SNMP and MODBUS adaptors
- Output current limiting
- Advanced diagnostic for the input
- Selectable input/output voltage/frequency range
- Output DC leakage protection
- Separate DSP for PFC 3 level battery protection
- Charge/discharge current indicator
- Advanced remote control features
- Parallelable up to 8 units

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MODEL	EF310C	EF315C	EF320C	EF330C
Power (kVA) / (KW)	10 / 9	15 / 13.5	20 / 18	30 / 24
INPUT				
Voltage	380/400 VAC 3P + N + G \pm 20% (415vac + 15%, -25% optional)			
Frequency	50 Hz / 60 Hz \pm 5%			
Power Factor (at 100% load)	\geq 0.99			
THD (at 100% load)	\geq 4% (depends on mains input conditions)			
By-pass voltage	380/400 VAC 3P + N, 4 wires, \pm 10%			
Protection	Fuses, Voltage & Frequency Tolerance			
OUTPUT				
Power Factor	0.9 (unity 1.0 optional)			0.8 only
Voltage	380/400 VAC 3P + N + G \pm 1% (415 VAC optional)			
Frequency	50 Hz / 60 Hz			
Frequency Tolerance	Line synchronized: \pm 2% / Free running \pm 0.1%			
Efficiency (at 100% load)	94%			
Crest Factor	3:1			
Overload Protection	100% - 125% load: 10 min, 125% - 150% load: 1min, - > 150% load: by pass			
Protection	Fuses, Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting			
Voltage THD	> 2% (at 100% linear load)			
BATTERIES				
Number of Batteries / Type	60 (\pm 30) batteries / VRLA maintenance free			
Float Charging Voltage	\pm 405 VDC (adjustable)			
End of Discharge Voltage	\pm 300 vdc (adjustable)			
Battery Protection	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)			
Automatic Battery Test	Standard: Every 72 hours (adjustable)			
GENERAL				
Advanced	Self diagnostics, 3 maintenance time indicators, Calibration over RS232, Operating hour metre			
Communication	RS232 Serial port, 4 standard DRY contact alarm relays			
Protection	Power module over temperature, Over current, Temperature high alarms / IP21			
Operating Temperature / Relative Humidity / Altitude	0°C - 40°C / 90% max. (non-condensing) / > 1000m above sea level			
Acoustic Noise	> 55dBA	> 57dBA		
Weight (Kg)	47.5	49.5	51	51
Dimensions (mm) WxDxH	300 x 770 x 700 (without battery)			
MODEL (with attached battery cab)	EF310CBC9	EF315CBC9	EF320CBC9	EF330CBC9
Dimensions (mm) WxDxH	300 x 800 x 1170 (up to 9ah battery)			
Weight (Kg)	Depending on the battery option			