

EPC Series (I/P 400V O/P 400V)



Electronic Phase Converter 20, 30, 40, 50, 60, 75 kVA

Claude Lyons® EPC Series of electronic phase converters are single phase input to three phase output (3 or 4 wire) inverter systems. Microprocessor controlled utilising SPWM technology (sinusoidal pulse width modulation) to produce a pure sine wave output.

Solid State, low maintenance maintenance systems incorporating Infineon® IGBT inverter modules for performance and reliability you can rely on.

Input: 1 Ø 400V AC

Output: 3 Ø 400V AC



Features & Options

- SPWM technology generating a pure sine wave output
- Robust, low maintenance system
- Incorporating German IGBT Inverter modules
- IP00 to IP54 (IP22 shown in images)
- LED display for live status
- Automatic unbalanced load compensation
- Overvoltage, overcurrent, overheat and short circuit protection system
- CE approved
- Optional input and/or output MCB's
- Optional remote monitoring



CLAUDE LYONS

The Allendale Group Ltd, Claude Lyons Dept.

Pindar Road, Hoddesdon, Hertfordshire EN11 0BZ, United Kingdom
01992 455930 • sales@claudelyons.com • www.claudelyons.com



Technical Data

Model number	CL-EPC- 20KVA-400V	CL-EPC- 30KVA-400V	CL-EPC- 40KVA-400V	CL-EPC- 50KVA-400V	CL-EPC- 60KVA-400V	CL-EPC- 75KVA-400V
Capacity (kVA)	20	30	40	50	60	75
Technology	IGBT & SPWM pulse width modulation					
AC input						
Input voltage (V)	Single phase 400 ± 15%					
Input frequency (Hz)	50 ± 15%					
Max no load input current (A)	2	3	4	5	6	8
Max full load input current (A)	62.5	93.8	125	156.3	187.5	234.4
AC output						
Output waveform	Pure sine wave					
Output voltage (V)	Three phase 400 (3 or 4 wire)					
Output voltage accuracy (%)	± 1					
Max full load output current (A)	28.9*	43.4*	57.8*	72.3*	86.7*	108.3*
Output frequency (Hz)	50					
Frequency accuracy (%)	Frequency determination ± 0.01; frequency modulation ± 0.1					
Dynamic voltage transients (%)	2 (0-100% load change)					
Voltage distortion rate (distortion degree) (%)	THD < 3 (Non-linear load)					
Display mode						
Display type	4-in-1 LED digital display					
Digital voltmeter (V)	± 0.1					
Digital ammeter (A)	± 0.1					
Digital frequency (Hz)	± 0.1					
Digital power (W)	± 0.1					
System						
System efficiency (%)	90					
Insulation resistance (MΩ)	DC > 500V 20					
Dielectric strength	(Input and output to ground) 1800 Vdc, leakage current less than 3.5mA, no flashover for 1 min.					
Protection class	IP42 (Note: images show IP22 rated systems)					
Heat dissipation mode	Transformer forced fan cooling					
Operating temperature (°C)	-10 to +50					
Relative humidity (%)	0-90 (non-condensing)					
Noise (dB)	< 65					
Protective systems	Overvoltage, overcurrent, short circuit, overheat protection functions. (Optional input and/or output MCB's)					
Dimensions and weights						
System dimensions W x D x H (MM)	460 x 900 x 1225		500 x 900 x 1300		600 x 1350 x 1460	
System weight (kg)	160	180	200	200	530	530
Packaged dimensions (mm)	600 x 1050 x 1450		580 x 980 x 1450		720 x 1470 x 1700	
Packaged weight (kg)	230	250	260	260	600	600

* Output rating based on Resistive loads, derating required for other load types.



CLAUDE LYONS

The Allendale Group Ltd, Claude Lyons Dept.

Pindar Road, Hoddesdon, Hertfordshire EN11 0BZ, United Kingdom
01992 455930 • sales@claudelyons.com • www.claudelyons.com

