

# **PACEL ELECTRONICS LTD.**

1 Willis Way  
Poole, BH15 3SS  
ENGLAND

Tel: 01202-676616

Fax: 01202-681357

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## **TECHNICAL SPECIFICATION**

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### **Pacel P5 EL Inverter**

## PACEL EL INVERTER - TYPE P5.

### Data Sheet.

This compact inverter is similar to the P3 design, uses surface mount components and is for use in general industrial and commercial applications.

It can be either potted or un-potted, but it does not meet the mil-spec requirements of the P4 design - (ie: operation between -45 to +85 deg.C and storage between -55 and +125 deg.C.)

### Design Details.

#### Overall dimensions and pin-out positions.

Please refer to dwg. P0617 attached to this specification.

#### Output:

70-170 volts rms @ 300-890Hz depending upon dc input voltage and capacitive load of the EL Panel.

#### Temperature limits.

This inverter will operate between -20 and +60 deg.C.

#### Circuit Protection.

Unlike our mil-spec designs, this inverter is not protected against long duration open circuits or short circuits.

#### Performance.

The performance characteristics outlined on the following pages relate to tests performed with Pacel EL Panels.

*Please note: EL Panels manufactured by different vendors may present the inverter with a widely different capacitive load and hence performance may vary considerably from that shown here.*

PACEL P5 INVERTER - FREQUENCY (Hz) vs. AREA

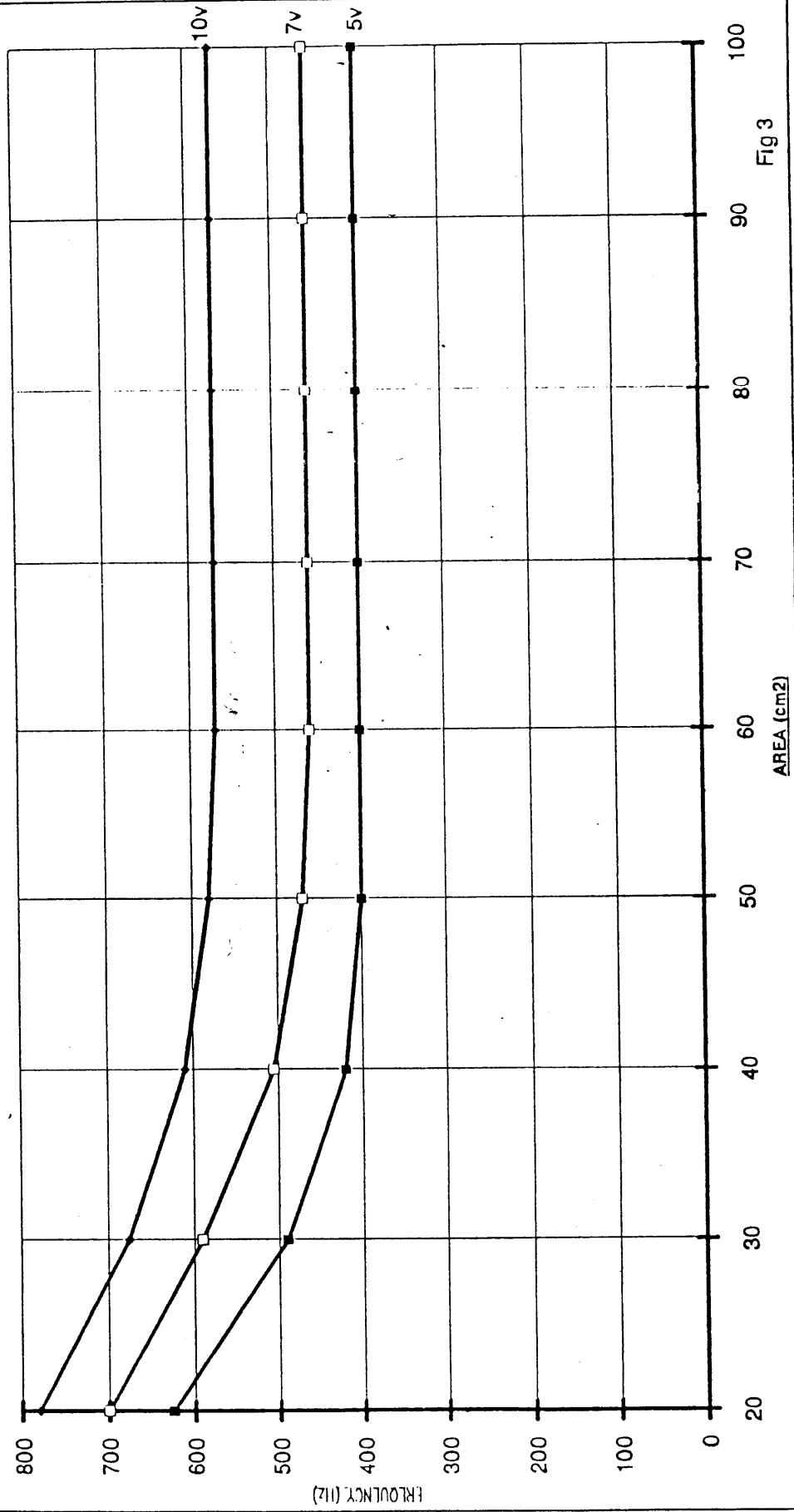


Fig 3

PACEL P5 INVERTER - Cd/m2 vs AREA

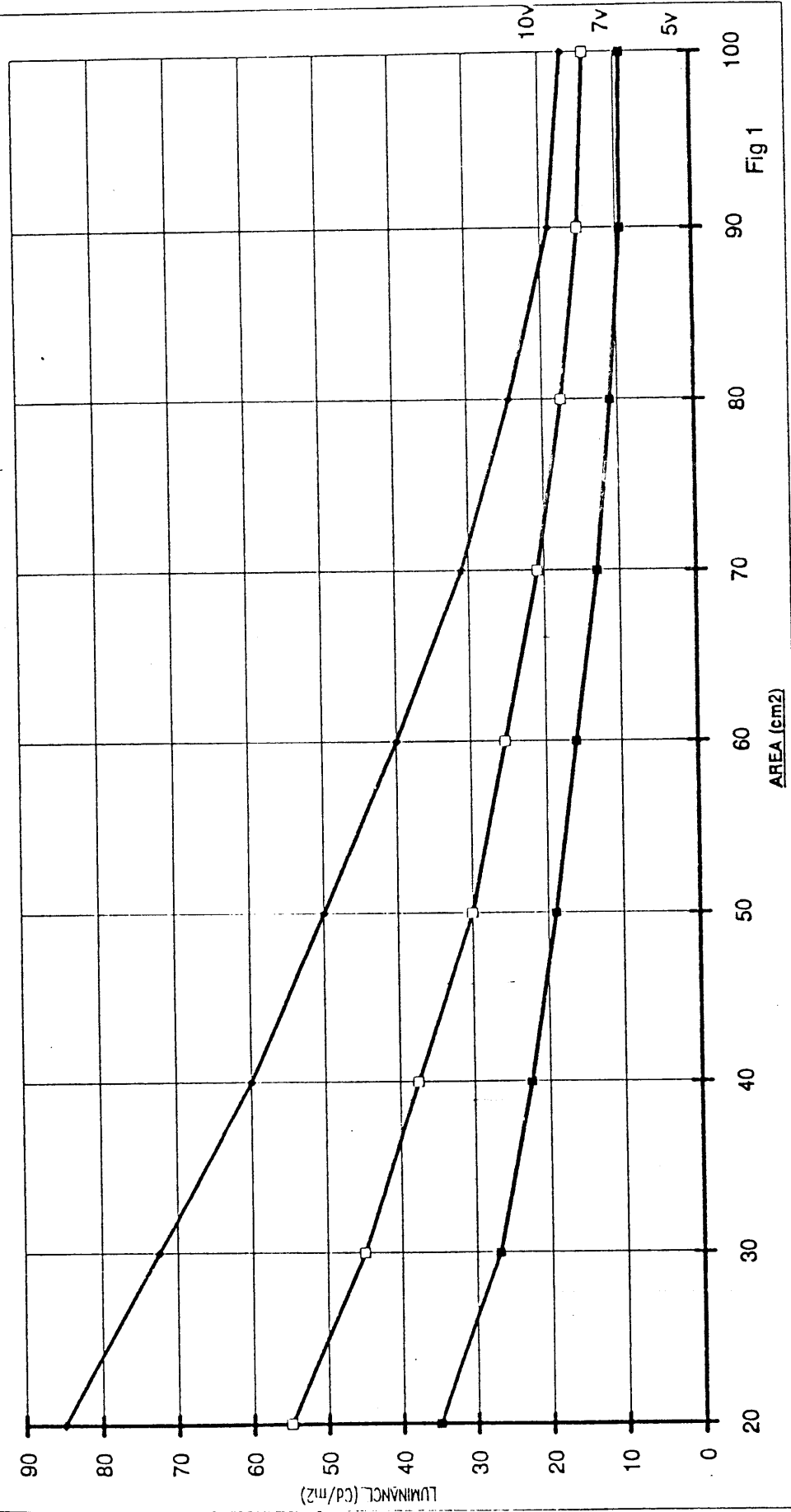


Fig 1

PACEL P5 INVERTER - INPUT (ma) vs. AREA

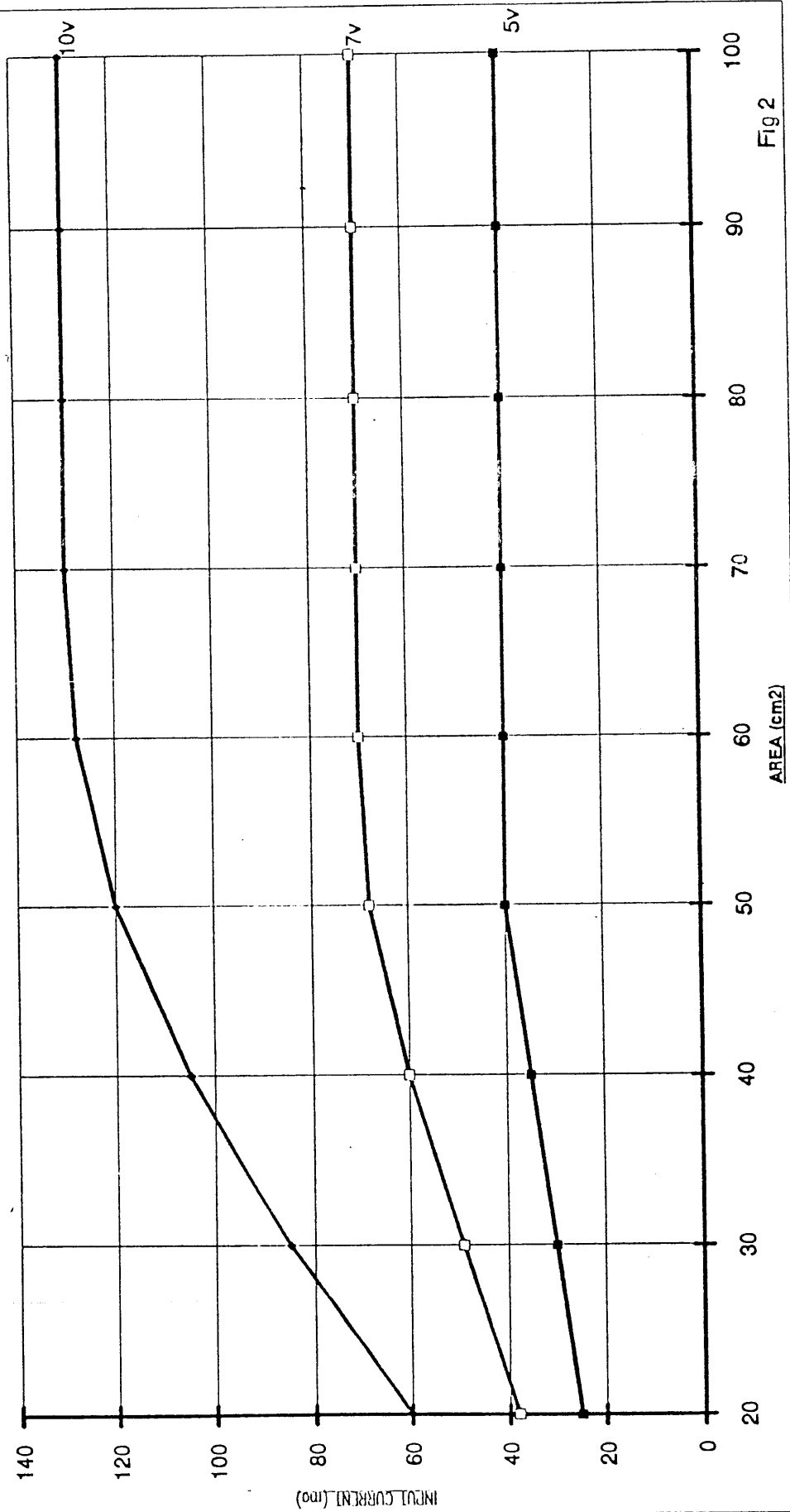
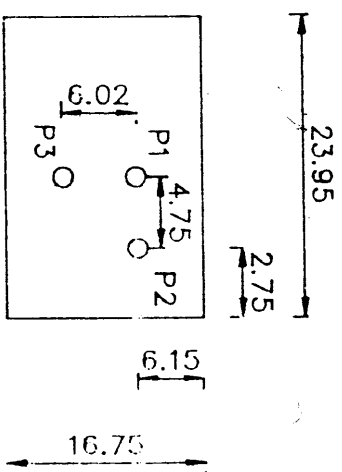


Fig 2



PACEL P5 EL INVERTER - ENCAPSULATED



BASE VIEW

HEIGHT: 18.20mm

PIN-OUT DETAILS

- P1: - COMMON
- P2: - POSITIVE
- P3: - AC OUTPUT

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1 MILLIS WAY, POOLE, BH15 3SS  
TEL: 0202-676616

DRAWN		DATE		ISSUE	
CHECKED					
SCALE		TOL.			
DIMENSIONS IN MM.					

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CUSTOMER	
JOB REF.	
TITLE	P5 ENCAPSULATED INVERTER
DWG. No	P0617