

## Invicta 3 250A TP&N Distribution Boards

### TP&N Lighting Power & Services Board

For applications where power and lighting need to be metered separately and two individual TP&N boards are to be employed. The dual MID metered incomer gives space for incoming cables to be terminated and allows the TP&N boards to be selected to suite requirements of the installation. The incomer is supplied complete with fixings and the cables to connect to the TP&N boards, they simply require feeding through the relevant CT and connecting to the incomer for the board.

When connecting the incomer to the TP&N board simply remove the gland plate and bolt the board to the relevant side of the incomer, the edges are protected with an obround feature removing the need for protection of the edges. The gland plate can then be fixed to the bottom of the incomer.



JKD250MID

Description

Cat ref.

125A Dual Multi Function Metered Incomer Pulsed & MODBUS Side by Side

**JKD250MID**

#### Interface Characteristics

Rated & operational voltage ( $U_n / U_e$ )	415V a.c. 50Hz
Rated insulation voltage ( $U_i$ )	690V a.c. 50Hz
Rated impulse withstand voltage ( $U_{imp}$ )	4kV
Rated current of the Assembly ( $I_{nA}$ )	250A RHS Pan Assembly ( $I_n$ ) 250A LHS Pan Assembly ( $I_n$ ) 250A
Rated conditional short-circuit current of the assembly ( $I_{cc}$ )	10kA <sup>1</sup> with equipment and arrangements specified in Hager's technical documentation/catalogue
Protection against electric shock	Equipment shall be installed in an electrical system conforming to IEC 60364 / BS 7671
Rated frequency (fn)	50 Hz
Pollution degree	2
Types of system earthing for which the ASSEMBLY is designed	TNC-S, TN-S and TT when installed in an electrical system conforming to BS 7671
Intended locations	Indoor use only
Degree of protection	IP3XD with Door Closed IP2XC with Door Open
Intended use	Distribution boards intended to be operated by ordinary persons (DBO)
Electromagnetic compatibility (EMC) classification	EMC Environment B
External design	Wall-mounted, surface type, enclosed assembly.
Mechanical impact protection	IK05
The type of construction	Fixed parts
Incoming Line Terminal	Dependant upon incomer
Incoming Neutral Terminal	50mm <sup>2</sup> Cage
Enclosure Earth Stud	M8

Each JKD250MID has a HGR42EWC. This meter monitors the energy used on each of the distribution boards attached to the incomer.

- Four module DIN rail mounted
  - Energy pulse LED / High definition white backlit LCD display
  - 2 x Inputs from **easywire**® Current Transformers
  - Three phase network compatible
  - Independently programmable CT ratios (Load 1 and Load 2)
  - Programmable voltage transformer ratio
  - True RMS measurement
  - MID B+D Certified
  - Simple programming & operation / auto or manual page scrolling
  - 2 x Pulse outputs and Modbus communication or Mbus
  - Voltage OUT connector for daisy-chaining up to 32 meters from one supply
- For more information on meter see HGR42EW series data sheets.



MID



Catalogue Reference	Height (mm)	Width (mm)	Depth (mm)
JKD125MID	625	930	165.5

Board comes supplied with Qty 2 250A direct connection kits and relevant lugs which will need to be fitted to cable.

When utilising different size TP&N boards the completed installation will not be even on the top edge.

