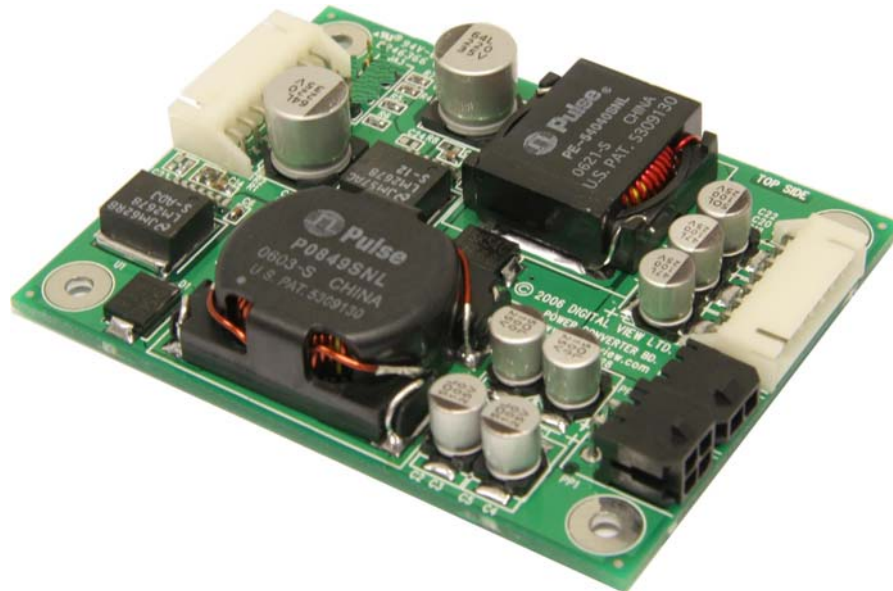




Power Converter board P/N 416013900-3

The power converter board P/N 416013900-3 designs for providing 12VDC output to panel and controller and 24VDC to panel backlight inverter.



CNB1 – +24VDC, max 8A Power input

Connector used : JST S8B-XH-A, (Mating type : JST XHP-8 or compatible)

[Suggested matching cable used : P/N 426014500-3, 460mm \(solder end\)](#)

Pin	Pin definition
1	24VDC input
2	24VDC input
3	24VDC input
4	24VDC input
5	Ground
6	Ground
7	Ground
8	Ground

CNB2 – +24VDC, 4A (when PP1 & PP2 at max output) power output – for backlight inverter

Connector used : JST S8B-XH-A, (Mating type : JST XHP-8 or compatible)

[Suggested matching cable used : P/N 426014500-3, 460mm \(solder end\)](#)

Pin	Pin definition
1	24VDC output
2	24VDC output
3	24VDC output
4	24VDC output
5	Ground
6	Ground
7	Ground
8	Ground

PP1 – 12VDC, max 4A power output – for external 12V panel power

Connector used : Molex 43045-0400 compatible (Mating type : Molex 43025-0400 or compatible)

Suggested matching cable used : [P/N426014300-3, 300mm](#)

Pin	Pin definition
1	12VDC output
2	Ground
3	12VDC output
4	Ground

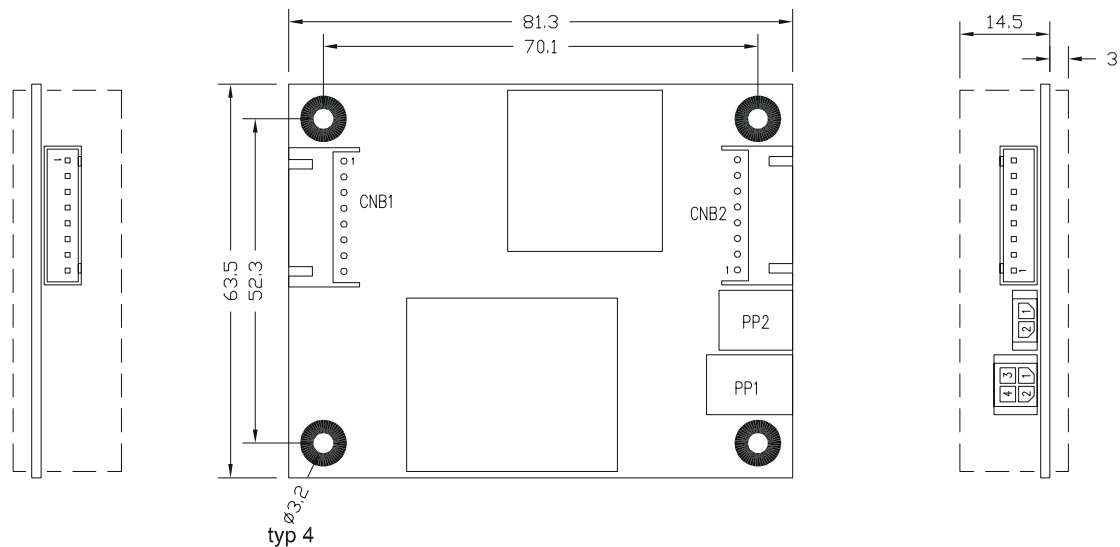
PP2 – 12VDC, max 4A power output – for controller

Connector used : Molex 43650-0200 compatible (Mating type : Molex 43645-0200 or compatible)

Suggested matching cable used : [P/N 426014400-3, 300mm](#)

Pin	Pin definition
1	12VDC output
2	Ground

Mechanical Drawing :



All dimensions are in mm

Application Notes :

The converter supports a derated wattage of 160W (24V x 8A x 85%) that is limited by the current rating of the CNB1. On applications requiring higher total wattage the inverter should be driven directly from the 24V supply without passing through the converter board.