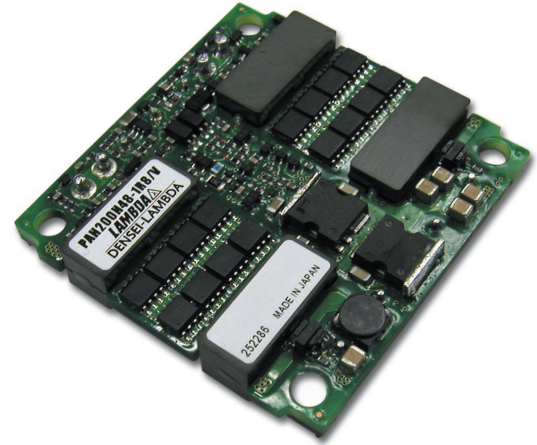


High Current Half Brick DC-DC Converters

Features

- ◆ Industry Standard Package
- ◆ Low voltage outputs to 0.96V
- ◆ Output Currents up to 70A
- ◆ Designed for telecom standards
- ◆ Output voltage adjustment
- ◆ Remote On / Off
- ◆ High Efficiency
- ◆ Wide adjustment range
- ◆ ASIC Design
- ◆ No potting materials



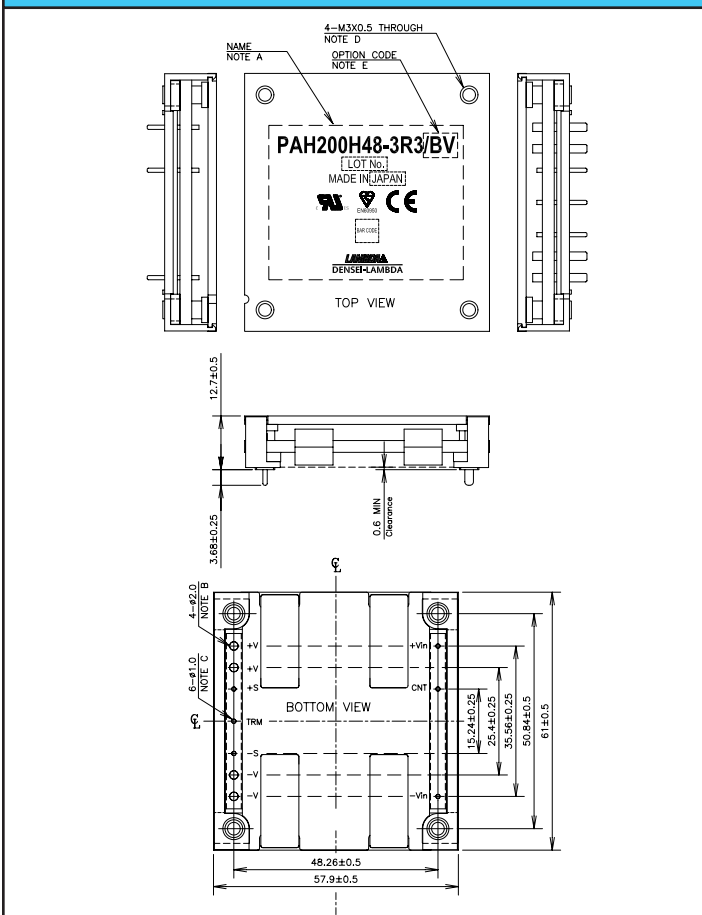
Key Market Segments & Applications



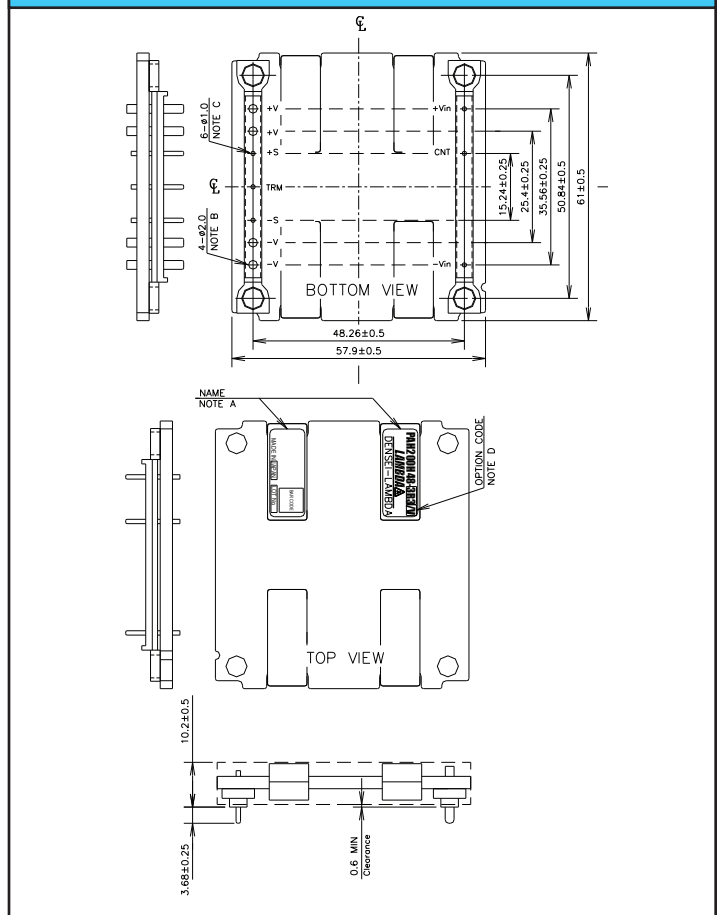
| Specifications | | PAH200H48-1R2 | PAH200H48-1R5 | PAH200H48-1R8 | PAH200H48-2R5 | PAH200H48-3R3 |
|---------------------------|--------|----------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|
| Model | | (/C version) | (/C version) | (/C version) | (/C version) | (/C version) |
| Nominal Output Voltage | VDC | 1.2 | 1.5 | 1.8 | 2.5 | 3.3 |
| Output Current (Max) | A | 70 (60) | 70 (60) | 70 (60) | 70 (60) | 60 (50) |
| Max Output Power | W | 84(72) | 105(90) | 126 (108) | 175 (150) | 198 (165) |
| Efficiency (Typ) | % | 82 | 84 | 87 | 88 | 90 |
| Input Voltage range | VDC | 36 - 76V (100V for 100ms) | | | | |
| Input Current (typ) | A | 2.18 (1.87) | 2.66 (2.28) | 3.08 (2.64) | 4.23 (3.63) | 4.68 (3.90) |
| Output Voltage Accuracy | % | ±1 | | | | |
| Output Voltage Adjustment | V | 0.96-1.32 | 1.2-1.65 | 1.44 - 1.98 | 2.0 - 2.75 | 2.805 - 3.795 |
| Max Ripple & Noise | mV | 100 | | | | |
| Max Line Regulation | mV | 10 | | | | |
| Max Load Regulation | mV | 10 | | | | |
| Overcurrent Protection | - | 105 - 140% (See Options) | | | | |
| Overvoltage Protection | - | 120 - 140% (See Options) | | | | |
| Remote Sense | - | Yes | | | | |
| Remote On / Off | - | Yes (See options) | | | | |
| Operating Temperature | - | -40°C to +85°C (100°C /B option) Baseplate temperature | | | | |
| Operating Humidity | - | 5 - 95% Non condensing | | | | |
| Storage Temperature | - | -40°C to +100°C | | | | |
| Cooling | - | Convection, or forced air | | | | |
| I/O Isolation Voltage | - | Input to Output 1500VAC Output to Case 500VAC | | | | |
| Vibration (non operating) | - | 10~55Hz (1 minute), amplitude 0.825mm (49m/s ² max), X, Y, Z 1 hr ea. | | | | |
| Shock | - | 196.1 m/s ² | | | | |
| Safety Agency Approvals | - | UL1950, CSA950, EN60950, & CE | | | | |
| Weight (Typ) | g | 90 | | | | |
| Size (WxHxD) | in(mm) | 2.28 x 0.4* x 2.4 (57.9 x 10.2* x 61); * /B version 0.5 (12.7) | | | | |
| Warranty | yrs | Two Years | | | | |

Note: See Installation Manual for full details, test methods of parameters and application notes.

Outline Drawing



Outline Drawing



Options

| Suffix | OCP / OVP | Remote On / Off |
|--------|------------------------|----------------------|
| Blank | Manual Reset | Negative, Short = On |
| /V* | Auto Reset | Negative, Short = On |
| /P | Manual Reset | Positive, Open = On |
| /PV* | Auto Reset | Positive, Open = On |
| /C** | Single set of O/P pins | |
| /B | Baseplate Fitted | |

Note Suffix letter order: /C followed by /P followed by /V
 Example: /CPV.

* Standard US Stock Item.

** See website for outline drawing—not available with /B option.

Pinout

| Pin Description | Function |
|-----------------|----------------------------|
| -Vin | Negative Input Terminal |
| +Vin | Positive Input Terminal |
| CNT | On / Off Control terminal |
| +V | Positive Output Terminal |
| -V | Negative Output Terminal |
| TRIM | Output adjustment Trim pin |
| +S | Positive Remote sense |
| -S | Negative Remote sense |

Other DC-DC Products

| | |
|-----|------------------------------------------------|
| PAF | 500, 600, & 700W Full brick DC-DC |
| PAH | 50W to 350W Half brick DC-DC |
| PAQ | Up to 100W Quarter brick DC-DC |
| SX | 20W surface mount 24V & 48VDC-DC |
| X | 10, 15, 20W 24V & 48VDC Input DC-DC converters |

For Additional Information, please visit
us.tdk-lambda.com/lp/products/pah200h-series.htm

