

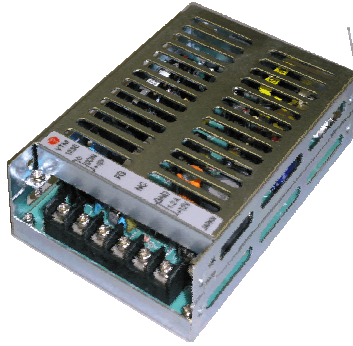


ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

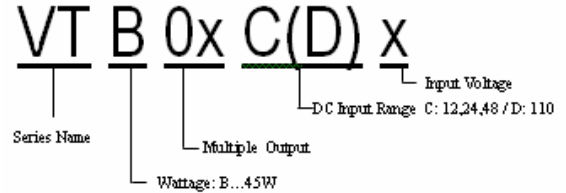
DC/DC SWITCHING POWER SUPPLY
DC INPUT 12,24,48, 110
MULTIPLE OUTPUT
45WATTS

VTB-00Cx/VTB-00D SERIES



Dimension: 96W × 160L × 33H

General Description



Features

1. Variety of Models
2. Chassis mount type
3. Compact and High Efficiency

DC INPUT: 12V

| Input Characteristics | Unit | VTB01C12 | VTB01C12B | VTB03C12 | VTB04C12 |
|-------------------------|------|---------------|-----------|----------|----------|
| Input Voltage | Vdc | DC 12V | | | |
| Input Voltage Range | Vdc | DC 9.2V-16V | | | |
| Inrush Current *1 | A | Not Specified | | | |
| Efficiency (typical) *2 | % | 76 | 80 | 76 | 76 |
| MTBF | H | 450'000 | | | |
| Switching Frequency | kHz | 40 Fix | 40 Fix | 40 Fix | 40 Fix |

DC INPUT: 24V

| Input Characteristics | Unit | VTB01C24 | VTB01C24B | VTB03C24 | VTB04C24 |
|-------------------------|------|---------------|-----------|----------|----------|
| Input Voltage | Vdc | DC 24V | | | |
| Input Voltage Range | Vdc | DC 19-32V | | | |
| Inrush Current *1 | A | Not Specified | | | |
| Efficiency (typical) *2 | % | 76 | 81 | 76 | 78 |
| MTBF | H | 440'000 | | | |
| Switching Frequency | kHz | 40 Fix | 40 Fix | 40 Fix | 40 Fix |

DC INPUT: 48V

| Input Characteristics | Unit | VTB01C48 | VTB01C48B | VTB03C48 | VTB04C48 |
|-------------------------|------|---------------|-----------|----------|----------|
| Input Voltage | Vdc | DC 48V | | | |
| Input Voltage Range | Vdc | DC 38-63V | | | |
| Inrush Current *1 | A | Not Specified | | | |
| Efficiency (typical) *2 | % | 79 | 82 | 78 | 78 |
| MTBF | H | 450'000 | | | |
| Switching Frequency | kHz | 40 Fix | 40 Fix | 40 Fix | 40 Fix |

DC INPUT: 110V

| Input Characteristics | Unit | VTB01D | VTB01D-B | VTB03D | VTB04D |
|-------------------------|------|---------------|----------|--------|--------|
| Input Voltage | Vdc | DC 110V | | | |
| Input Voltage Range | Vdc | DC 85-140V | | | |
| Inrush Current *1 | A | 20A (maximum) | | | |
| Efficiency (typical) *2 | % | 79 | 80 | 75 | 76 |
| MTBF | H | 420'000 | | | |
| Switching Frequency | kHz | 40 Fix | 40 Fix | 40 Fix | 40 Fix |





ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

VTB-C / VTB-D

| Output Characteristic | Unit | Models | | | | | | | | | | | |
|---|------|---|------|------|----------------|-----|-----|-------------|------|------|---------------|------|------|
| | | VTB01Cx / D | | | VTB01Cx B / DB | | | VTB03Cx / D | | | VTB04Cx B / D | | |
| Output Voltage | V | +5 | +12 | -12 | +12 | +5 | -12 | +5 | +12 | -5 | +5 | +15 | -15 |
| Output Current 25W at horizontal mount (Vin=12) 25W at horizontal mount (Vin=24,48,110) 30W at vertical mount without cover(Vin=24,48) 50W at vertical mount without cover(Vin=110) | A | 5.0 | 0.73 | 0.73 | 2.7 | 1.0 | 0.3 | 5.0 | 0.73 | 0.73 | 5.0 | 0.6 | 0.6 |
| | | 5.0 | 0.83 | 0.83 | 3.0 | 1.0 | 0.4 | 5.0 | 0.83 | 0.83 | 5.0 | 0.63 | 0.63 |
| | | | 1.0 | 0.50 | | | | | 1.0 | | | | |
| | | | 1.0 | 0.50 | P4.0 | | | | 1.0 | | | | |
| Voltage Adjust Range | V | V1: +/-5% (maximum) of Rated Output Voltage at 25°C, rated input and no load V2, V3: fixed with tolerance +/-3.5% of Rated Output Voltage at 25°C, rated input and no load | | | | | | | | | | | |
| Ripple Noise(max)*3 | mVpp | 100 | 170 | 170 | 170 | 100 | 170 | 100 | 170 | 100 | 100 | 200 | 200 |
| Rise up time | mS | 200mS(maximum) at 25°C and rated input/output | | | | | | | | | | | |
| Hold up time | mS | Not specified (Vin=110 8mS(minimum) at 25°C and rated input/output) | | | | | | | | | | | |
| Regulation | | | | | | | | | | | | | |
| a. Line Regulation (max) (Vin=12,110) | mV | 35 | 96 | 96 | 96 | 40 | 96 | 40 | 96 | 40 | 40 | 120 | 120 |
| | | 35 | 84 | 84 | 84 | 35 | 84 | 35 | 84 | 35 | 35 | 105 | 105 |
| b. Load Regulation (max) | mV | 50 | 120 | 120 | 120 | 50 | 120 | 50 | 120 | 50 | 50 | 150 | 150 |
| c. Temperature Coefficient *4 | °C | 0.03%/°C | | | | | | | | | | | |
| d. Drift(maximum) *5 | mV | 40 | 75 | 75 | 75 | 40 | 75 | 40 | 75 | 40 | 40 | 90 | 90 |
| e. Dynamic Load Regulation (typ.) *5 | mV | 150 | 360 | 360 | 360 | 150 | 360 | 150 | 360 | 150 | 150 | 450 | 450 |
| f. Recovery Time *5 | mS | 0.5mS(typical) | | | | | | | | | | | |

*1 at cold start

*2 at rated input/output

*3 measured by a bayonet probe at the output connector at a 0 to 100MHz bandwidth

*4 at 0 to +50°C

*5 for 7hour period after 1hour warm-up at 25°C and rated input/output

*6 when output current changed between 25% and 75% of rated output current rapidly at rated input



ETA USA

16170 Vineyard Blvd. Suite 180, Morgan Hill, CA 95037
Phone: 1-800-ETA-POWER, (408) 778-2793 Fax: (408) 779-2753

Visit us at: www.eta-usa.com
email at: sales@eta-usa.com

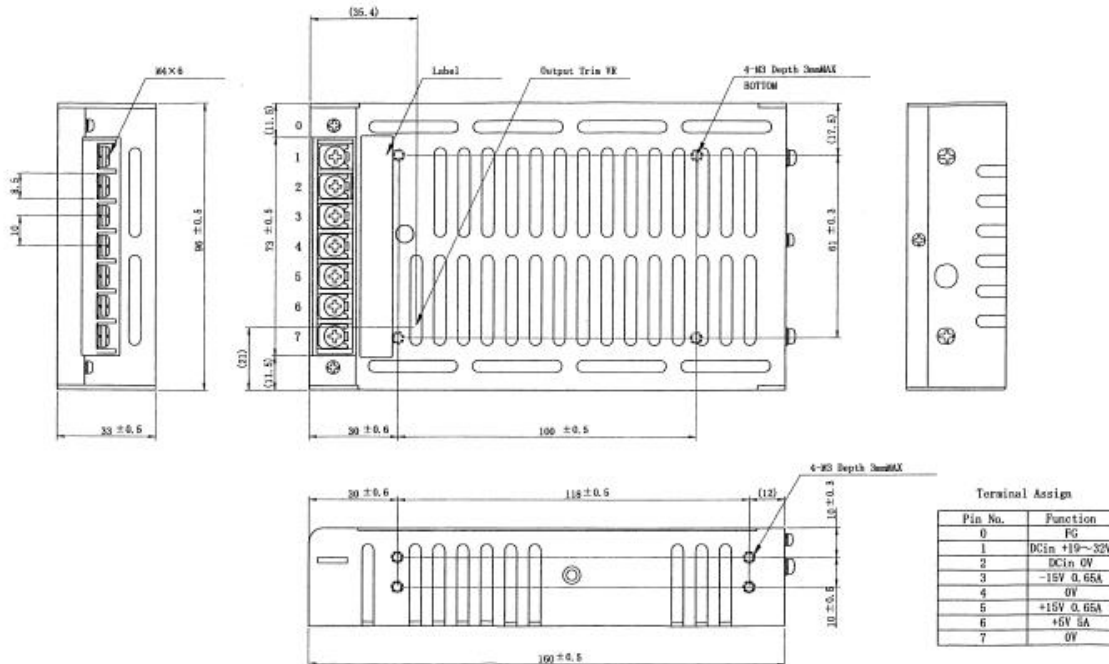


ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

| Environmental Specification | |
|-----------------------------|--|
| Operating Temperature | 0 to +50°C |
| Operating Humidity | 85%RH (non-condensing) |
| Storage Temperature | -20 to +85°C |
| Storage Humidity | - |
| Withstanding Voltage | Primary-Secondary AC1,500V for 1minute (Vin=110 2000) Primary-Frame Ground AC1,500V for 1minute (Vin=110 2000) Secondary-Frame Ground AC500V for 1minute |
| Isolation Resistance | Primary-Secondary-Frame Ground 50MΩ (minimum) by DC500V insulation tester |
| Vibration | 5-10Hz:10mm double amplitude, 10-55Hz:19.6m/s ² , 20minutes' period for 60minutes each along X,Y,Z axes (non-operating) |
| Shock | 294m/s ² |
| Cooling | Convection |
| Functions | |
| Over current Protection | Current Limiting with automatic recovery |
| Over voltage Protection | zener diode clamping |
| Remote Sense | not available |
| Remote On/Off | not available |
| Reverse Voltage Protection | by internal fuse (Vin=110 by internal bridge diode) |
| Line Conduction Noise | Not specified |
| Weight [g] (typical) | 470 G |
| Dimension [mm] | 96W × 160L × 25H |

DIMENSION DIGRAM



ETA USA
16170 Vineyard Blvd. Suite 180, Morgan Hill, CA 95037
Phone: 1-800-ETA-POWER, (408) 778-2793 Fax: (408) 779-2753

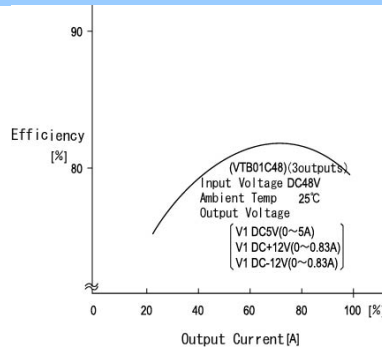
Visit us at: www.eta-usa.com
email at: sales@eta-usa.com



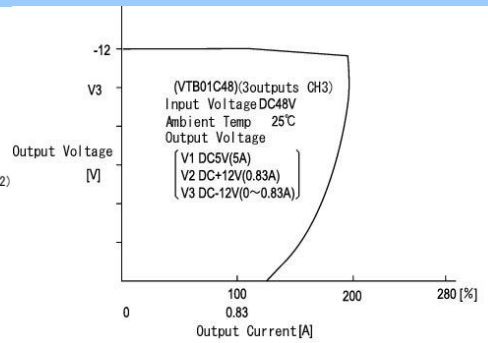
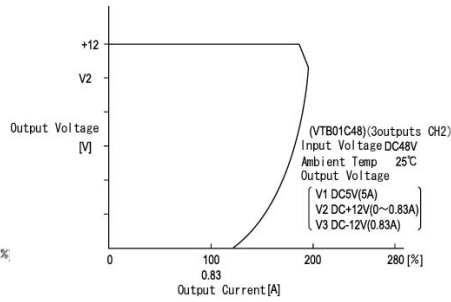
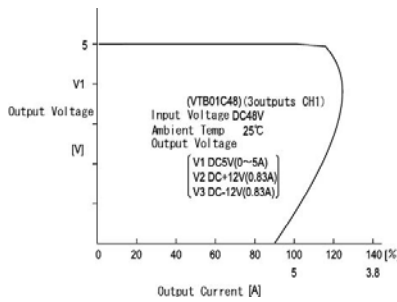
ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

EFFICIENCY CURVE



OCP CURVE



ETA USA

16170 Vineyard Blvd. Suite 180, Morgan Hill, CA 95037
Phone: 1-800-ETA-POWER, (408) 778-2793 Fax: (408) 779-2753

Visit us at: www.eta-usa.com
email at: sales@eta-usa.com



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.