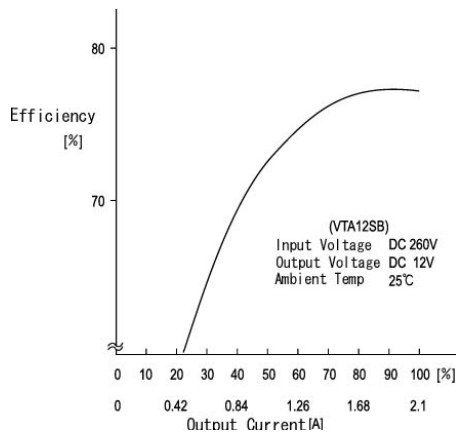


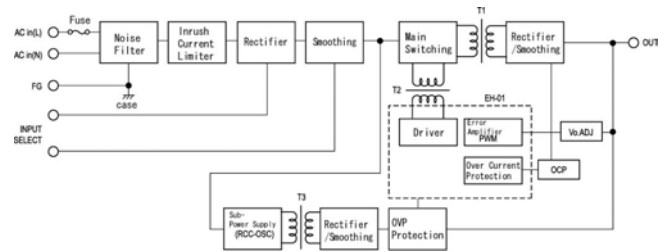
25 WATT AC-DC CONVERTER VTA-SB SERIES

| Specifications<AC/DC> | Model | | | | |
|--|------------------------------------|---------|---------|---------|------------|
| VTA**SB 25WATTS/SINGLE OUTPUT | VTA05SB | VTA12SB | VTA15SB | VTA24SB | VTA48SB |
| Input Characteristic | | | | | |
| Input Voltage | AC200V(DC260V) | | | | |
| Input Range | AC180-264V(DC220-350V) | | | | AC170-264V |
| Input Frequency | 50/60Hz | | | | |
| Input Frequency Range | 47 -440Hz | | | | |
| Phase | Single | | | | |
| Inrush Current *1 | 20A(maximum) at rated input/output | | | | |
| Efficiency [%] (typical) *2 | 76 | 78 | 80 | 80 | 80 |

Efficiency Curve



Block Diagram Curve



| SVB**SB Specification | | | | | |
|--|---|---------|---------|---------|-------------|
| Specifications<AC/DC> | Model | | | | |
| VTA**SB 25WATTS/SINGLE OUTPUT | VTA05SB | VTA12SB | VTA15SB | VTA24SB | VTA48SB |
| Output Characteristic | | | | | |
| Output Voltage [V] | 5 | 12 | 15 | 24 | 48 |
| Output Current [A] | 5.0 | 2.1 | 1.7 | 1.10 | 0.5 |
| Voltage Adjust Range | +/-10% of Rated Output Voltage(at no load within input range) | | | | |
| Ripple and Noise [mVp-p](maximum) *3 | 100 | 170 | 200 | 290 | 530 |
| Regulation | | | | | |
| a.Statistic Line Regulation [mV](maximum) | 40 | 96 | 120 | 192 | 384 |
| b.Statistic Load Regulation [mV](maximum) | 45 | 108 | 135 | 216 | 432 |
| c.Temperature Coefficient | 0.03%/°C | | | | |
| d.Drift[mV](maximum) *5 | 40 | 75 | 90 | 135 | 255 |
| e.Dynamic Load Regulation [mV](typical) *6 | 150 | 360 | 450 | 720 | 1440 |
| f.Recovery Time *6 | 0.5mS(typical) | | | | |
| Rise up time | 100mS(maximum) at 25°C and rated input/output | | | | mS(maximum) |
| Hold up time | 20mS(minimum) at 25°C and rated input/output | | | | |
| Functions | | | | | |
| Overcurrent Protection | Current Limiting with automatic recovery | | | | |
| Overvoltage Protection | output shutdown | | | | |
| Remote Sense | not available | | | | |
| Remote On/Off | not available | | | | |
| Environmental | | | | | |
| Operating Temperature | 0 to +50°C | | | | |
| Operating Humidity | 85% RH(non-condensing) | | | | |
| Storage Temperature | -20 to +85°C | | | | |
| Storage Humidity | 30 to 85% RH(non-condensing) | | | | |
| Withstanding Voltage | Primary-Secondary AC2,500Vfor 1minute | | | | |
| | Primary-Frame Ground AC2,500V for 1minute | | | | |
| | Secondary-Frame Ground AC500V for 1minute | | | | |
| Isolation Resistance | Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V | | | | |
| 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 | | | | |
| ? Leakage Current | 1.0mA(maximum) | | | | |
| ? Line Conduction Noise | Not specified | | | | |
| ? Safety | - | | | | |
| ? Weight (typical) | 350g | | | | |
| ? MTBF [H] | 820,000 | | | | |
| ? Switching Frequency[kHz](typical) | 63 | | | | |

Conditions:

- *1 at cold start
- *2 at DC260V and rated 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 from 25% to 75% of rated output current rapidly at AC200V in