



PRELIMINARY

# SOLID STATE DEVICES, INC.

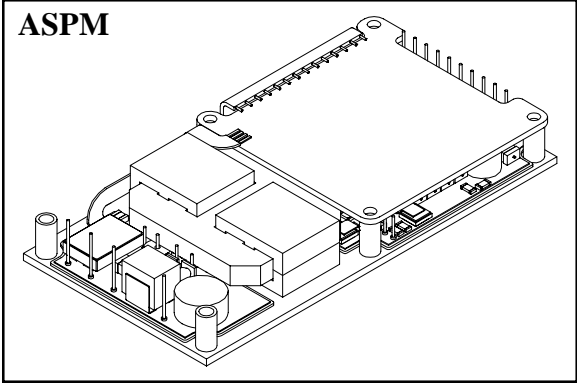
14005 Stage Road \* Santa Fe Springs, Ca 90670  
Phone: (562) 404-4474 \* Fax: (562) 404-1773

## DESIGNER'S DATA SHEET

**SPMC387-01**

**50 WATT  
RADIATION HARDENED  
DC-DC POWER  
CONVERTER**

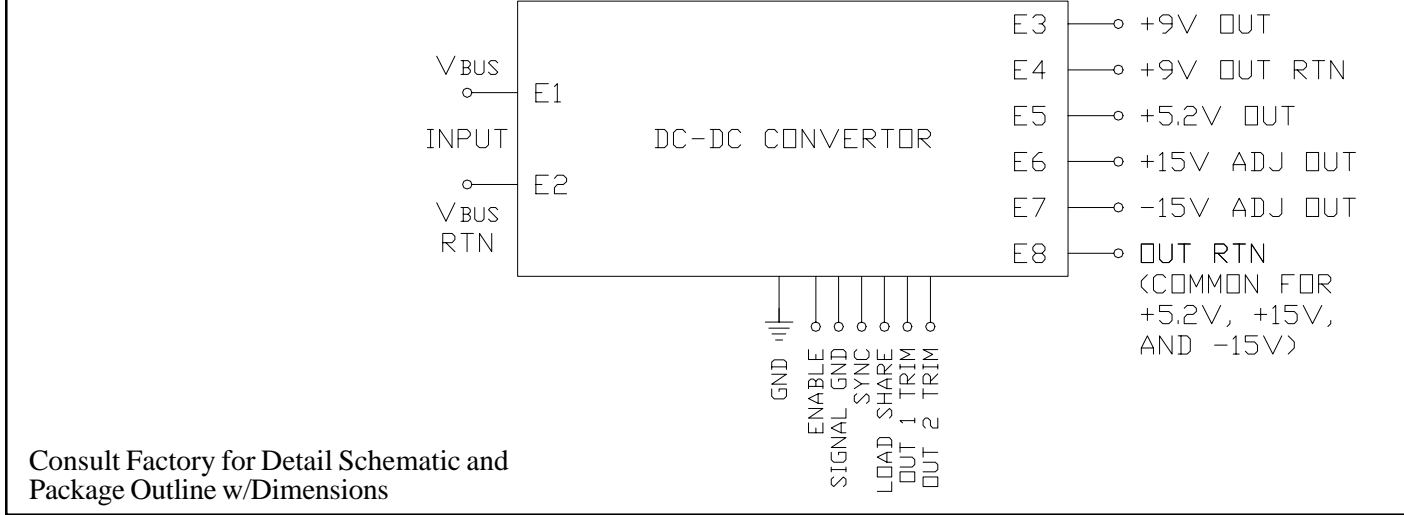
- FEATURES:**
- **Application: Satellite Power Conversion Requiring Radiation Hardening**
  - **Conversion @ 1100 Hz; Control @ 600Hz**
  - **50 - 75 W Typical Power Processing Capability**
  - **Input Filter, Short Circuit & Overvoltage Protection Included**
  - **High Power Density Hermetic Design**
  - **Low Profile and Low Weight**
  - **Excelent Thermal Management**
  - **EMI Shield and Low Noise Design**
  - **TX, TXV, and S Level Screening Available**
  - **Consult Factory for Different Voltages, Currents.**



## MAXIMUM RATINGS

| CHARACTERISTIC                          | SYMBOL                                       | VALUE                      | UNIT  |
|---|--|----------------------------|-------|
| INPUT VOLTAGE                           | $V_{IN}$                                     | 80 - 105                   | Volts |
| OUTPUT VOLTAGE                          | $V_{01}$<br>$V_{02}$<br>$V_{03}$<br>$V_{04}$ | +9.0<br>+5.2<br>+15<br>-15 | Volts |
| OUTPUT CURRENT                          | $I_{01}$<br>$I_{02}$<br>$I_{03}$<br>$I_{04}$ | 10<br>20<br>2<br>2         | Amps  |
| Operating and Storage Temperature Range | $T_{OP}$ & $T_{STG}$                         | -20 TO +125                | °C    |

## ELECTRICAL SCHEMATIC



**NOTE:** All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

**DATA SHEET #: PM0007A**

