

# PT 15

## PT 15 Watt Series DC/DC Converters

<b>Total power</b>	15 Watts
<b>Input voltages</b>	24V or 48V Input
<b>#of outputs</b>	Single, Dual, Triple Output



### SPECIAL FEATURES

- CE(LVD), UL marking
- High efficiency
- Industrial standard pin out
- 250KHz fixed frequency
- Wide 4:1 input range
- Isolated output
- Small, compact size 2.0"×2.0"×0.40"
- Surface mount internal construction
- Six sided EMI shielding
- Low output ripple & noise
- Remote on / off control
- Output voltage variation (TRM)
- Over voltage protection (O.V.P)
- Current mode control
- 3 years warranty

### ENVIRONMENTAL

- Operating temperature range ..... -20°C ~ 71°C
- Option, see Note 1 ..... -40°C ~ 85°C
- Storage temperature range ..... -40°C ~ 105°C
- Operating humidity (non condensing) .... 20%~90%RH
- Storage humidity (non condensing) ..... 10%~95%RH
- Cooling method ..... Convection
- EMI / RFI ..... Six-sided continuous shield
- Case material ..... Zn
- MTBF ..... 5.0×10<sup>4</sup> hrs
- Safety(single output)
  - └ UL (UL 60950, CSA C22.2 NO.60950) : E227474 /
  - └ CE (EN 60950) through TÜV

### ELECTRICAL SPECIFICATIONS

<b>INPUT</b>	<ul style="list-style-type: none"> <li>• Input range ..... 10V to 36 VDC (PT 15-24), 20 to 72 VDC (PT 15-48)</li> <li>• Efficiency ..... 78 ~ 83% typ.</li> <li>• Remote on / off ..... TTL compatible                             <ul style="list-style-type: none"> <li>└ On : 2.5 to 5.5VDC or open</li> <li>└ Off : 0 to 0.8 VDC</li> </ul> </li> </ul>
<b>OUTPUT</b>	<ul style="list-style-type: none"> <li>• Voltage tolerance ..... ±2% (single and uncomplementary dual)                              ..... ±3% (complementary dual)</li> <li>• Line regulation ..... ±0.25% @ output1                              ..... ±5% @ output2, 3</li> <li>• Load regulation ..... ±0.25% @ single                              ..... ±2.5% @ dual                              ..... ±0.25% output1                              ..... ±5% output 2, 3 ] @ Triples / 10% L-FL max (aux) bal. Loads</li> <li>• Ripple and Noise, pk-pk ..... Bandwidth : 20MHz                              ..... Magnitude : 1% Vout nom</li> </ul>
<b>PROTECTION CIRCUIT</b>	<ul style="list-style-type: none"> <li>• Short circuit protection ..... Current limited output (note2)</li> <li>• Over voltage protection ..... Work at 115 ~ 140% of rating</li> </ul>
<b>ELECTRICALLY ISOLATED</b>	<ul style="list-style-type: none"> <li>• Isolation ..... Input-output, input-case, output-case / DC 500V, 100Mohms</li> <li>• High pot ..... Input-output, input-case, output-case / AC 500V, 1 minute</li> </ul>

**NOTE** 1. As a factory added option, the all model can be operated down to -40°C, the suffix 'M' should be added to the model number when ordering ex) PT15-48-522M  
 2. Long term continuous operation into a short circuit will compromise the reliability of the unit

