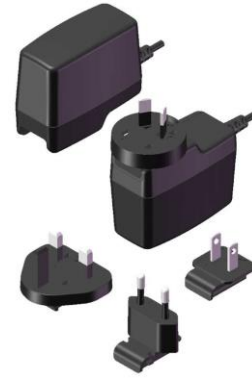




## 25 Watt Switching Adapter Wall Mount, Series DVTRE25R



### Features

- Universal Input Range: 90 – 264Vac
- High Efficiency up to 88%
- Interchangeable AC Plugs
- No Load Power Consumption <75mW
- Continuous Short Circuit Protection
- Over Voltage Protection
- Class II
- Approval IEC/EN/UL62368-1
- Approval EN55032 and CISPR/FCC Class B
- Meet CoC Tier 2 & DoE Level VI

| MODEL NUMBER | OUTPUT VOLTAGE [ VDC ] | OUTPUT CURRENT MAX. [ A ]<br>Note 6 | RIPPLE & NOISE<br>Note 1 | VOLTAGE ACCURACY [ % ]<br>Note 2 | LOAD CAPACITANCE [ $\mu$ F ]<br>Note 3 | LOAD REGULATION [ % ]<br>Note 4 | EFF. [ % ]<br>Note 5 |
|--------------|------------------------|-------------------------------------|--------------------------|----------------------------------|--|---------------------------------|----------------------|
| TRE25R050    | 5                      | 4,0                                 | 50mV                     | $\pm$ 2                          | 4000                                   | $\pm$ 6                         | 80                   |
| TRE25R090    | 9                      | 2,5                                 | 90mV                     | $\pm$ 2                          | 2500                                   | $\pm$ 5                         | 87                   |
| TRE25R120    | 12                     | 2,1                                 | 120mV                    | $\pm$ 2                          | 2100                                   | $\pm$ 5                         | 87                   |
| TRE25R150    | 15                     | 1,67                                | 150mV                    | $\pm$ 2                          | 1670                                   | $\pm$ 3                         | 88                   |
| TRE25R180    | 18                     | 1,4                                 | 180mV                    | $\pm$ 2                          | 1400                                   | $\pm$ 2                         | 88                   |
| TRE25R240    | 24                     | 1,05                                | 240mV                    | $\pm$ 2                          | 1050                                   | $\pm$ 2                         | 88                   |

Note: 1. Add a 0.1 $\mu$ F ceramic capacitor and a 10 $\mu$ F E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.  
 2. Voltage accuracy at 60% full load.  
 3.  $V_{in}$ =115V<sub>ac</sub> and 230V<sub>ac</sub>. Output is max. load  
 4. Load regulation measured from 60% to full load and from 60% to 20% load (60% +/- 40% load).  
 5. Typical efficiency at 230Vac and 75% full load at 25°C. .  
 6.  $V_{in}$ =115V<sub>ac</sub> and 230V<sub>ac</sub>,  $T_c$ =25°C  
 Typical at 25°C, nominal line and 75% load, unless otherwise specified.

### Ordering Information

| Model     | Output     | AC Plug Type  | DC Plug Type               | Cable           | DC Cable Length |
|-----------|------------|---|----------------------------|-----------------|-----------------|
| TRE25R    | XXX        | -XXXX   | -XX                        | G               | XX              |
|           | 050 : 5V   | -ASUE : Include 4 Type  | STANDARD<br>OUTPUT DC PLUG | UL1571 with OVP | 5V 1220mm       |
|           | 090 : 9V   |   |                            |                 | 9V 1800mm       |
|           | 120 : 12V  | Blank : Order Separately AC Adapter<br>A: American type<br>S: Australian type<br>U: U.K. type<br>E: European type |                            |                 | 12V 1800mm      |
|           | 150 : 15V  |   |                            |                 | 15V 1800mm      |
|           | 180 : 18V  |   |                            |                 | 18V 1800mm      |
| 240 : 24V | 24V 1800mm |   |                            |                 |                 |

#### Example:

TRE25R240-11G03 : 24Vdc Output, AC Plug Separately , DC Plug Type 11, Cable Length 1800mm  
 TRE25R240-ASUE-11G03 : 24Vdc Output, Include 4 Type, DC Plug Type 11, Cable Length 1800mm

Technische Änderungen vorbehalten / Specifications are subject to change without notice

## INPUT SPECIFICATIONS:

|                               |                                |
|-------------------------------|--------------------------------|
| Input Voltage Range.....      | 90-264Vac                      |
|                               | 120-370Vdc                     |
| Input Frequency Range.....    | 47 to 63Hz                     |
| Input Current.....            | 100% Load, Vin=100Vac          |
|                               | 0,7A max.                      |
| Leakage Current.....          | 250µA max.                     |
| Under Voltage Protection..... | .60Vac min. - 75Vac max.       |
| Inrush Current.....           | Vin=240Vac, Cold start at 25°C |
|                               | 60A max.                       |

## OUTPUT SPECIFICATIONS:

|                               |                                      |                       |
|-------------------------------|--------------------------------------|-----------------------|
| Hold-up Time.....             | Vin 115Vac                           | 10mS typ.             |
| Line Regulation.....          | Vin=High line to low line, full load | ±1.0% max.            |
| Over Voltage Protection.....  | Auto recovery                        | IC Component to Clamp |
| Over Current Protection.....  | Auto recovery                        | 110% min. - 140% max. |
| Short Circuit Protection..... | Auto recovery                        | Continuous            |

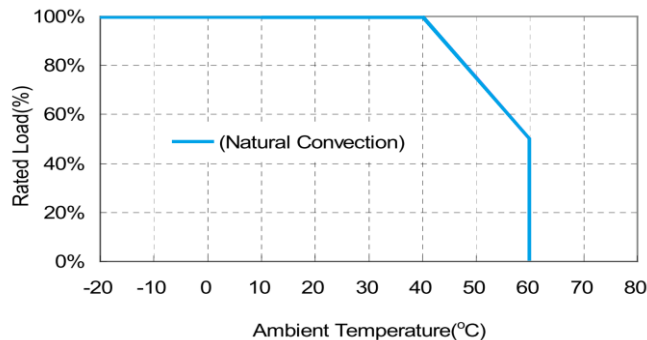
## GENERAL SPECIFICATIONS:

|                                  |   |                          |
|----------------------------------|---|--------------------------|
| Isolation Input to Output.....   | 1 minute (without dielectric breakdown) | 3000VAC max.             |
| Isolation Resistance.....        | Input to output                         | 100 MΩ min.              |
| Switching Frequency.....         |   | 65KHz typ.               |
| Operating Temperature Range..... | see derating curve                      | -20°C to +60°C           |
| Storage Temperature Range.....   |   | -20°C to +85°C           |
| Humidity.....                    | Non condensing                          | 93% RH max.              |
| Cooling.....                     |   | Natural Convection       |
| MTBF.....                        | Io=100%; Ta=25°C per MIL-HDBK-217F      | 300Khrs min.             |
| Altitude.....                    |   | 3000m max.               |
| Shock.....                       | MIL-STD-810F Table 516.5                | 75g typ.                 |
| Vibration.....                   | MIL-STD-810F Table 514.5C-VIII          | 4g typ                   |
| Dimensions.....                  |   | 71,00 x 48,40 x 33,00 mm |
| Weight.....                      |   | 140g typ.                |



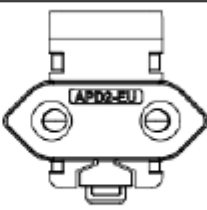

## SAFETY & EMC:

|  |  |
|--|--|
| Safety.....  | Class II, IEC/EN/UL62368-1                                       |
| EMC Emission.....                                      | EN55032, EN61000-3-2, EN6100-3-3, FCC CFR 47 Part 15             |
| Conducted Disturbance.....                             | EN55032 Class B  |
| Radiated Disturbance.....                              | EN55032 Class B  |
| Harmonic Current Emissions.....                        | EN 61000-3-2   |
| Voltage Fluctuations & Flicker.....                    | EN 61000-3-3   |
| EMC Immunity.....                                      | EN 55024, EN 61204-3, EN 61000-6-1,3, EN 61000-3-2, EN 61000-3-3 |
| Electrostatic Discharge (ESD).....                     | IEC 61000-4-2, Air Discharge: ±8kV, Contact Discharge: ±4kV      |
| Radio-Frequency, Continuous, Radiated Disturbance..... | IEC 61000-4-3  |
| Electrical Fast Transient (EFT).....                   | IEC 61000-4-4  |
| Surge.....   | IEC 61000-4-5, L-N ±0.5kV, ±1kV                                  |
| Conducted Disturbances, Induced by RF Fields.....      | IEC 61000-4-6  |
| Power Frequency Magnetic Field.....                    | IEC 61000-4-8  |
| Voltage Dips.....                                      | IEC 61000-4-11, Dips:30% reduction, Dips: >95% Reduction         |
| Voltage Interruptions.....                             | IEC 61000-4-11, >95% Reduction                                   |

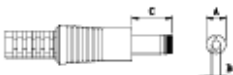

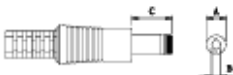
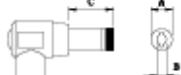
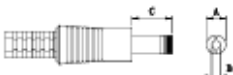
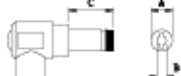
## Derating Curve





|      |   |   |  |   |
|------|---|---|--|---|
| TYPE |  |  |  |  |
|      | U.K type (U)  | American type (A)   | European type (E)  | Australian type (S)   |

**STANDARD OUTPUT DC PLUG**

| DC Plug Type   | DC Plug G Cable Length Number | A       | B       | C      | Cable Type | Cable Length        | Cable AWG                    |        |                     |              |
|--|-------------------------------|---------|---------|--------|------------|---------------------|------------------------------|--------|---------------------|--------------|
|  |                               | OD (mm) | ID (mm) | L (mm) |            |                     |                              |        |                     |              |
| <br>Straight/Inner+Outer-<br>+ ● - -      | 11G03                         | Φ5.5    | Φ2.1    | 12     | UL1571     | 1800mm without Core | 20AWG for 12V, 15V, 18V, 24V |        |                     |              |
|  | 12G03                         | Φ5.5    | Φ2.5    | 12     |            |                     |                              |        |                     |              |
|  | 23G03                         | Φ5.5    | Φ2.1    | 9.5    |            |                     |                              |        |                     |              |
|  | 26G03                         | Φ5.5    | Φ2.5    | 9.5    |            |                     |                              |        |                     |              |
| <br>Right Angle/Inner+Outer-<br>+ ● - -   | 01G03                         | Φ5.5    | Φ2.1    | 12     |            |                     |                              |        |                     |              |
|  | 02G03                         | Φ5.5    | Φ2.5    | 12     |            |                     |                              |        |                     |              |
|  | 21G03                         | Φ5.5    | Φ2.5    | 9.5    |            |                     |                              |        |                     |              |
|  | 24G03                         | Φ5.5    | Φ2.1    | 9.5    |            |                     |                              |        |                     |              |
| <br>Straight/Inner+Outer-<br>+ ● - -    | 11G03                         | Φ5.5    | Φ2.1    | 12     |            |                     |                              | UL1571 | 1800mm without Core | 18AWG for 9V |
|  | 12G03                         | Φ5.5    | Φ2.5    | 12     |            |                     |                              |        |                     |              |
|  | 23G03                         | Φ5.5    | Φ2.1    | 9.5    |            |                     |                              |        |                     |              |
|  | 26G03                         | Φ5.5    | Φ2.5    | 9.5    |            |                     |                              |        |                     |              |
| <br>Right Angle/Inner+Outer-<br>+ ● - - | 01G03                         | Φ5.5    | Φ2.1    | 12     |            |                     |                              |        |                     |              |
|  | 02G03                         | Φ5.5    | Φ2.5    | 12     |            |                     |                              |        |                     |              |
|  | 21G03                         | Φ5.5    | Φ2.5    | 9.5    |            |                     |                              |        |                     |              |
|  | 24G03                         | Φ5.5    | Φ2.1    | 9.5    |            |                     |                              |        |                     |              |
| <br>Straight/Inner+Outer-<br>+ ● - -    | 11G02                         | Φ5.5    | Φ2.1    | 12     | UL1571     | 1220mm without Core | 16AWG for 5V                 |        |                     |              |
|  | 12G02                         | Φ5.5    | Φ2.5    | 12     |            |                     |                              |        |                     |              |
|  | 23G02                         | Φ5.5    | Φ2.1    | 9.5    |            |                     |                              |        |                     |              |
|  | 26G02                         | Φ5.5    | Φ2.5    | 9.5    |            |                     |                              |        |                     |              |
| <br>Right Angle/Inner+Outer-<br>+ ● - - | 01G02                         | Φ5.5    | Φ2.1    | 12     |            |                     |                              |        |                     |              |
|  | 02G02                         | Φ5.5    | Φ2.5    | 12     |            |                     |                              |        |                     |              |
|  | 21G02                         | Φ5.5    | Φ2.5    | 9.5    |            |                     |                              |        |                     |              |
|  | 24G02                         | Φ5.5    | Φ2.1    | 9.5    |            |                     |                              |        |                     |              |

Other DC Plug Type on request