

# TRONIX

## SPECIFICATION

|   |   |
|---|---|
| Description   | 220-240V LED Driver, Constant Voltage Driver                                      |
| Electrical Characteristics                                  | Ta = 25°C, 220-240Vrms input, standard reference load; unless otherwise specified |
| Class II, IP20, thermally protected 110, independent driver |   |

|                           |           |                |
|---------------------------|-----------|----------------|
| Product Name              |           | <b>215-423</b> |
| <b>Input Parameters</b>   |           |                |
| Rated Input Voltage       | Uin       | 220-240VAC     |
| Input Current (Full load) | Iin       | 0.55           |
| Input Frequency           | fin       | 50/60Hz        |
| Maximum Input Power       | Pin       | 112W           |
| Power Factor (Full load)  | $\lambda$ | $\geq 0.95$    |
| THD(Full load)            |           | $\leq 15\%$    |
| Efficiency (Full load)    | $\eta$    | $\geq 92\%$    |
| No-load power             |           | $\leq 0.5W$    |
| Inrush current            |           | $\leq 50.0A$   |
| Turn on time              |           | $\leq 500ms$   |

|                                |      |               |
|--------------------------------|------|---------------|
| <b>Output Parameters</b>       |      |               |
| Output Voltage                 | Vout | 24V $\pm 5\%$ |
| Output Current (Full load)     | Iout | 4.17A         |
| Output Power (Full load)       | Pout | 100W          |
| Operating Frequency(Full load) | Fout | 130KHz        |
| Ripple & Noise                 |      | $\leq 500mV$  |
| Load Regulation                |      | $\leq 5\%$    |
| Line Regulation                |      | $\leq 5\%$    |

|                              |    |                |
|------------------------------|----|----------------|
| <b>Ambient</b>               |    |                |
| Storage Temperature          | ts | -20 ... + 70°C |
| Operating Ambient            | ta | -20 ... + 40°C |
| Case Temperature at tc Point | tc | 90°C           |
| Relative humidity            |    | 5 ... 85%      |

|                   |  |                                   |
|-------------------|--|-----------------------------------|
| <b>Protection</b> |  |                                   |
| No Load           |  | Auto-recovery if fault is removed |
| Over Load         |  | Auto-recovery if fault is removed |
| Short Circuit     |  | Auto-recovery if fault is removed |

|                          |  |                               |
|--------------------------|--|-------------------------------|
| <b>System Parameters</b> |  |                               |
| Hi-pot                   |  | 3.75KVAC, Ileakage < 5mA, 60s |
| Average Service Life     |  | 30,000Hours                   |

|                                 |  |                      |
|---------------------------------|--|----------------------|
| <b>Compliance and approvals</b> |  |                      |
| Safety                          |  | EN 61347-2-13        |
| RFI                             |  | EN 55015             |
| Harmonics                       |  | EN 61000-3-2 Class C |
| Immunity                        |  | EN 61547             |

|  |  |  |
|--|--|--|
| <b>Note</b>  |  |  |
| 1. All parameters NOT specially mentioned are measured at 240VAC input, rated load and 25 of ambient temperature.                        |  |  |
| 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. |  |  |
| 3. Expected Life:tc=90°C,0.2%/1000h failure rate   |  |  |

|                             |                   |
|-----------------------------|-------------------|
| <b>Physical Parameter</b>   |                   |
| Dimensions(LxWxH):          | 312x30x18.5mm     |
| Housing Material:           | PC Plastic        |
| Captured Terminal Screw for | 0.75~2.5mm $\phi$ |