



| Item                             |                                 | Value        | Remark                                    |
|----------------------------------|---------------------------------|--------------|-------------------------------------------|
| Input                            | Nominal voltage                 | 220–240V     |                                           |
|                                  | Nominal frequency               | 0 / 50–60Hz  |                                           |
|                                  | AC voltage range                | 198–264V     |                                           |
|                                  | DC voltage range (start)        | NA           |                                           |
|                                  | DC voltage range (operation)    | NA           |                                           |
|                                  | Nominal current                 |              |                                           |
|                                  | G5RT30W600LRP                   | 150mA        |                                           |
|                                  | G5RT30W700LRP                   | 170mA        |                                           |
|                                  | G5RT30W800LRP                   | 190mA        |                                           |
|                                  | Total Harmonic Distortion (THD) | < 20%        | Full load @230VAC                         |
|                                  | Power factor                    | 0.95-0.97    | Full load @230VAC                         |
|                                  | Displacement factor             | 0.95-0.97    | Full load @230VAC                         |
|                                  | Efficiency                      |              | Full load @230VAC                         |
|                                  | G5RT30W600/700LRP               | 86% (Typ.)   |                                           |
|                                  | G5RT30W800LRP                   | 85% (Typ.)   |                                           |
|                                  | No-load power                   | NA           |                                           |
|                                  | Stand-by power                  | NA           |                                           |
|                                  | Protection class                | NA           |                                           |
|                                  | Inrush current                  | 6A / 50us    |                                           |
| Max.units per circuit breaker    | Type B , 10A MCB                | 21           |                                           |
|                                  | Type B , 16A MCB                | 34           |                                           |
|                                  | Type C , 10A MCB                | 26           |                                           |
|                                  | Type C , 16A MCB                | 42           |                                           |
| Touch current                    |                                 | < 0.7mA peak | IEC/EN 61347-1                            |
| Output                           | Nominal voltage range           |              |                                           |
|                                  | G5RT30W600/700LRP               | 25-42Vdc     |                                           |
|                                  | G5RT30W800LRP                   | 25-40Vdc     |                                           |
|                                  | Maximum voltage                 | 55Vdc        |                                           |
|                                  | Nominal current range           |              |                                           |
|                                  | G5RT30W600LRP                   | 600mA        |                                           |
|                                  | G5RT30W700LRP                   | 700mA        |                                           |
|                                  | G5RT30W800LRP                   | 800mA        |                                           |
| Current accuracy                 |                                 | ± 5%         | Full load @230VAC                         |
| Typical output LF current ripple |                                 | ± 5%         | Low Frequency< 120Hz<br>Full load @230VAC |

|                          | Item                                     | Value                                                   | Remark                                                                                                           |
|--------------------------|------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Output                   | SVM                                      | ≤ 0.4                                                   | Full load @230VAC                                                                                                |
|                          | P <sub>st</sub> LM                       | ≤ 1                                                     | Full load @230VAC                                                                                                |
|                          | Starting time                            | < 0.5 S                                                 | Full load @230VAC                                                                                                |
|                          | Nominal power range                      |                                                         |                                                                                                                  |
|                          | G5RT30W600LRP                            | 15-25.2W                                                |                                                                                                                  |
|                          | G5RT30W700LRP                            | 17.5-29.4W                                              |                                                                                                                  |
|                          | G5RT30W800LRP                            | 20-32W                                                  |                                                                                                                  |
|                          | Maximum power                            | 32W                                                     |                                                                                                                  |
| Dimming                  | Dimming control                          | Trailing Edge                                           |                                                                                                                  |
|                          | Dimming technique                        | Amplitude                                               |                                                                                                                  |
|                          | PWM frequency                            | NA                                                      |                                                                                                                  |
|                          | Dimming range                            | 10-100%                                                 |                                                                                                                  |
|                          | Lowest dimming current                   | 10%                                                     |                                                                                                                  |
|                          | Galvanic isolation                       | NA                                                      |                                                                                                                  |
| Environment              | Ambient temperature range t <sub>a</sub> | -20°C - +50°C                                           |                                                                                                                  |
|                          | Maximum case temperature t <sub>c</sub>  | 85°C                                                    |                                                                                                                  |
|                          | Max. case temp. in fault condition       | 110°C                                                   | When operating under fault conditions, the temperature of the enclosure at any location should not exceed 110 °C |
|                          | Storage temperature range                | -40°C - +85°C                                           |                                                                                                                  |
|                          | Relative humidity                        | 10% - 95%                                               |                                                                                                                  |
|                          | Surge transient protection               | 1 kV                                                    | L/N                                                                                                              |
|                          | Environmental rating                     | Indoor                                                  |                                                                                                                  |
|                          | IP rating                                | IP20                                                    |                                                                                                                  |
|                          | Mains switching cycles                   | > 100,000                                               |                                                                                                                  |
|                          | Expected lifetime                        | > 50,000 h, t <sub>c</sub> 85 °C @ t <sub>a</sub> 50 °C | 0.2 % / 1,000 h failure rate                                                                                     |
|                          |                                          | > 100000 h, t <sub>c</sub> 75 °C @ t <sub>a</sub> 40 °C | 0.1 % / 1,000 h failure rate                                                                                     |
| Packing                  | Gross weight/box                         | 9.4 kg                                                  |                                                                                                                  |
|                          | Net weight/box                           | 8.4 kg                                                  |                                                                                                                  |
|                          | Pcs/box                                  | 56 PCS                                                  |                                                                                                                  |
|                          | Dimension/box                            | 490(L)*270(W)*225(H)mm                                  |                                                                                                                  |
| Protections              |                                          |                                                         |                                                                                                                  |
| Short-circuit Protection |                                          | Auto recovery                                           |                                                                                                                  |
| Open-circuit Protection  |                                          | Auto recovery                                           |                                                                                                                  |
| Overload Protection      |                                          | Auto recovery                                           |                                                                                                                  |
| Conformity & Standards   |                                          |                                                         |                                                                                                                  |
| Safety standard:         |                                          | EN 61347-1, EN 61347-2-13, EN 62493                     |                                                                                                                  |
| Performance:             |                                          | EN 62384                                                |                                                                                                                  |
| EMC standard:            |                                          | EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547          |                                                                                                                  |
| SAA standard:            |                                          | AS/NZS 61347.1, AS/NZS IEC 61347.2.13                   |                                                                                                                  |
| Cable information        |                                          |                                                         |                                                                                                                  |
| PRI                      | Connection                               | L                                                       | N                                                                                                                |
|                          | Color                                    | Brown                                                   | Blue                                                                                                             |
|                          | Wire type                                | 7022                                                    | 7022                                                                                                             |
|                          | Wire diameter                            | AWG20                                                   | AWG20                                                                                                            |
|                          | Wire length                              | 137mm                                                   | 137mm                                                                                                            |
|                          | Stripping                                | 6mm                                                     | 6mm                                                                                                              |
|                          | tolerance                                | ±5mm                                                    | ±5mm                                                                                                             |

|                |       |       |
|----------------|-------|-------|
| SEC Connection | +     | -     |
| Color          | Red   | Black |
| Wire type      | 3385  | 3385  |
| Wire diameter  | AWG22 | AWG22 |
| Wire length    | 136mm | 136mm |
| Stripping      | 6mm   | 6mm   |
| tolerance      | ±5mm  | ±5mm  |

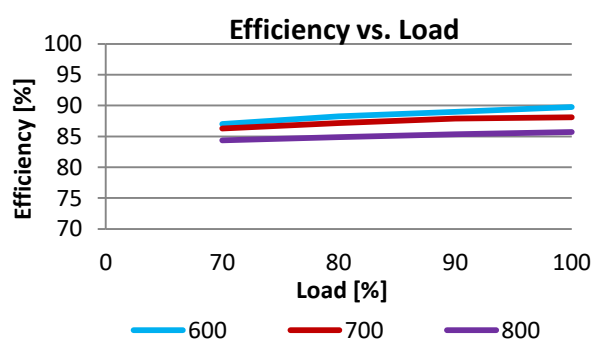
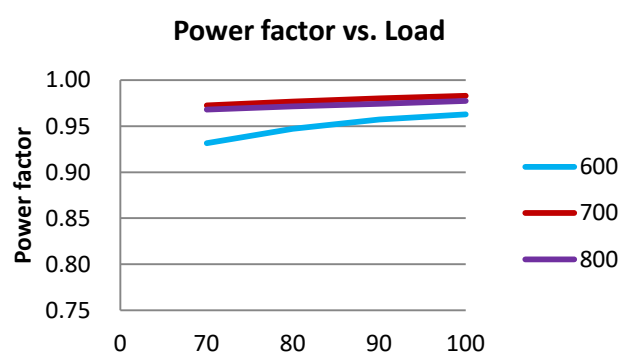
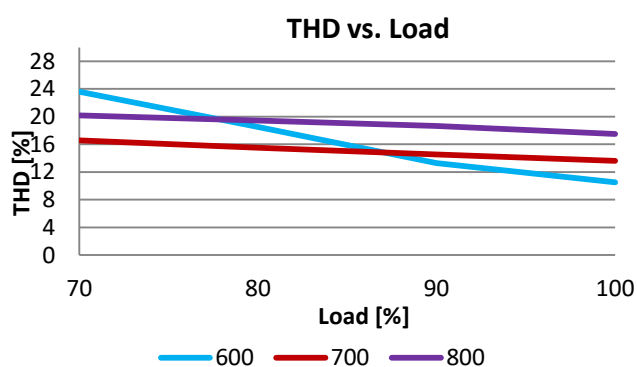
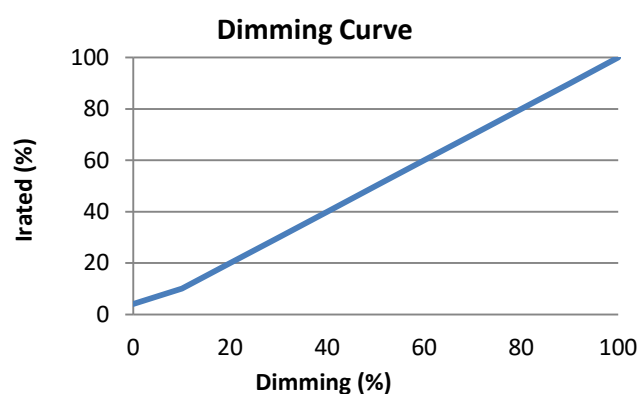
\*Subject to change without notice, HEP guarantees all products perform functionally well\*

\*If not mentioned, all the test conditions are based on full load at 230VAC input (for 220-240 VAC input).

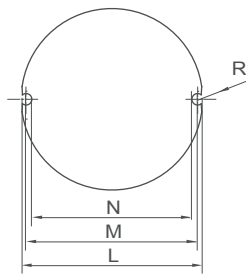
#### Trailing Edge Dimmer list approved by HEP

| Manufacturer     | Model    | Q'ty of parallelconnection |
|------------------|----------|----------------------------|
| Philips          | SED-200A | 6                          |
| Merten/Schneider | SBD315RC | 8                          |
| Etman            | ETM327   | 8                          |
| Etman            | ETM329   | 8                          |
| CASAMBI          | CBU-TED  | 4                          |

### Electrical Values



## Physical Parameter



L : 65.5 mm    M : 62 mm    N : 58.5 mm  
H : 30 mm    R : 1.75 mm

Tolerance :  $\pm 1$  mm , R :  $\pm 0.5$  mm

Housing Material : Polycarbonate / Potting  
Soldering : Lead-Free, Comply With RoHS  
Label : Surface Print

## Wiring Diagram

