



### Approval Marks



| Item                          |                                 | Value        | Remark                                  |
|-------------------------------|---------------------------------|--------------|-----------------------------------------|
| Input                         | Nominal voltage                 | 220–240V     |                                         |
|                               | Nominal frequency               | 50–60Hz      |                                         |
|                               | AC voltage range                | 198–264V     |                                         |
|                               | DC voltage range (start)        | NA           |                                         |
|                               | DC voltage range (operation)    | NA           |                                         |
|                               | Nominal current                 |              |                                         |
|                               | LNTC6W350LR                     | 40mA         |                                         |
|                               | LNTC6W500/700LR                 | 45mA         |                                         |
|                               | Total Harmonic Distortion (THD) | < 20%        | Full load @230VAC                       |
|                               | Power factor                    |              | Min-load @240Vac and Full-load @220 Vac |
|                               | LNC6W350/500LR                  | 0.93C-0.97   |                                         |
|                               | LNC6W700LR                      | 0.93C-0.95   |                                         |
|                               | Displacement factor             |              | Min-load @240Vac and Full-load @220 Vac |
|                               | LNC6W350/500LR                  | 0.93C-0.97   |                                         |
|                               | LNC6W700LR                      | 0.93C-0.95   |                                         |
|                               | Efficiency                      |              |                                         |
|                               | LNTC6W700LR                     | 70% (Typ.)   | Full load @230VAC                       |
|                               | LNTC6W500LR                     | 73% (Typ.)   | Full load @230VAC                       |
|                               | LNTC6W350LR                     | 75% (Typ.)   | Full load @230VAC                       |
|                               | No-load power                   | NA           |                                         |
|                               | Stand-by power                  | NA           |                                         |
|                               | Protection class                | NA           |                                         |
|                               | Inrush current                  | 10 A / 40 µs |                                         |
| Max.units per circuit breaker | Type B , 10A MCB                | 89           |                                         |
|                               | Type B , 16A MCB                | 142          |                                         |
|                               | Type C , 10A MCB                | 111          |                                         |
|                               | Type C , 16A MCB                | 178          |                                         |
| Earth leakage current         |                                 | NA           |                                         |

|             |  | Item                                     | Value         | Remark                                                                                                           |
|-------------|--|------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------|
| Output      |  | Nominal voltage range                    |               |                                                                                                                  |
|             |  | LNTC6W350LR                              | 10.0-17.0Vdc  |                                                                                                                  |
|             |  | LNTC6W500LR                              | 7.0-13.0Vdc   |                                                                                                                  |
|             |  | LNTC6W700LR                              | 4.8-8.6Vdc    |                                                                                                                  |
|             |  | Maximum voltage                          |               |                                                                                                                  |
|             |  | LNTC6W350LR                              | 24Vdc         |                                                                                                                  |
|             |  | LNTC6W500LR                              | 17Vdc         |                                                                                                                  |
|             |  | LNTC6W700LR                              | 13Vdc         |                                                                                                                  |
|             |  | Nominal current range                    |               |                                                                                                                  |
|             |  | LNTC6W350LR                              | 350mA         |                                                                                                                  |
|             |  | LNTC6W500LR                              | 500mA         |                                                                                                                  |
|             |  | LNTC6W700LR                              | 700mA         |                                                                                                                  |
|             |  | Current accuracy                         |               | Full load @230VAC                                                                                                |
|             |  | LNTC6W350LR                              | ± 5%          |                                                                                                                  |
|             |  | LNTC6W500/700LR                          | ± 5%          |                                                                                                                  |
|             |  | Typical output LF current ripple         | ± 5%          | Low Frequency<120Hz<br>Full load @230VAC                                                                         |
|             |  | SVM                                      | ≤ 0.4         | Full load @230VAC                                                                                                |
|             |  | PstLM                                    | ≤ 1           | Full load @230VAC                                                                                                |
|             |  | Starting time                            | < 0.5 S       | Full load @230VAC                                                                                                |
| Dimming     |  | Nominal power range                      |               |                                                                                                                  |
|             |  | LNTC6W350LR                              | 3.5-5.9W      |                                                                                                                  |
|             |  | LNTC6W500LR                              | 3.5-6.5W      |                                                                                                                  |
|             |  | LNTC6W700LR                              | 3.4-6.0W      |                                                                                                                  |
|             |  | Maximum power                            | 6.5W          |                                                                                                                  |
|             |  | Dimming control                          | Trailing Edge |                                                                                                                  |
|             |  | Dimming technique                        | Amplitude     |                                                                                                                  |
|             |  | PWM frequency                            | NA            |                                                                                                                  |
|             |  | Dimming range                            | 10-100%       |                                                                                                                  |
|             |  | Lowest dimming current                   | NA            |                                                                                                                  |
| Environment |  | Galvanic isolation                       | NA            |                                                                                                                  |
|             |  | Ambient temperature range t <sub>a</sub> | -20°C - +50°C |                                                                                                                  |
|             |  | Maximum case temperature t <sub>c</sub>  |               |                                                                                                                  |
|             |  | LNTC6W350LR                              | 65°C          |                                                                                                                  |
|             |  | LNTC6W500LR                              | 65°C          |                                                                                                                  |
|             |  | LNTC6W700LR                              | 75°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                | -25°C - +85°C |                                                                                                                  |
|             |  | Relative humidity                        | 10% - 85%     |                                                                                                                  |
|             |  | Surge transient protection               | 1 kV          | L/N                                                                                                              |
|             |  | Environmental rating                     | Indoor        |                                                                                                                  |
|             |  | IP rating                                | IP20          |                                                                                                                  |
|             |  | Mains switching cycles                   | > 100,000     |                                                                                                                  |
|             |  | Expected lifetime                        |               |                                                                                                                  |
|             |  | LNTC6W350/500LR                          | Full load     | > 50,000 h, t <sub>c</sub> 65 °C @ t <sub>a</sub> 50 ° 0.2 % / 1,000 h failure rate                              |
|             |  | LNTC6W700LR                              | Full load     | > 50,000 h, t <sub>c</sub> 75 °C @ t <sub>a</sub> 50 ° 0.2 % / 1,000 h failure rate                              |

|                |                     |                        |
|----------------|---------------------|------------------------|
| <b>Packing</b> | Gross weight/Carton | 8.9 kg                 |
|                | Net weight/Carton   | 8 kg                   |
|                | Pcs/Carton          | 192 PCS                |
|                | Dimension/Carton    | 385(L)*310(W)*260(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 |
| CCC standard:    | GB17625.1,GB/T17743,GB19510.1,GB19510.14       |
| SAA standard:    | AS/NZS 61347.1, AS/NZS IEC 61347.2.13          |

#### Cable information

|                       |       |       |
|-----------------------|-------|-------|
| <b>PRI</b> Connection | L     | N     |
| Color                 | Brown | Blue  |
| Wire type             | 7022  | 7022  |
| Wire diameter         | AWG18 | AWG18 |
| Wire length           | 142mm | 144mm |
| Stripping             | 6mm   | 6mm   |
| Tolerance             | ±5mm  | ±5mm  |

|                       |       |       |
|-----------------------|-------|-------|
| <b>Sec</b> Connection | +     | -     |
| Color                 | Red   | Black |
| Wire type             | 3385  | 3385  |
| Wire diameter         | AWG22 | AWG22 |
| Wire length           | 140mm | 142mm |
| Stripping             | 6mm   | 6mm   |
| Tolerance             | ±5mm  | ±5mm  |

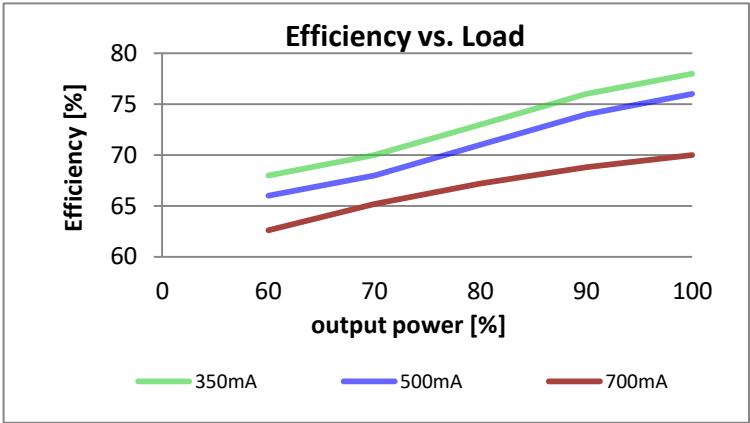
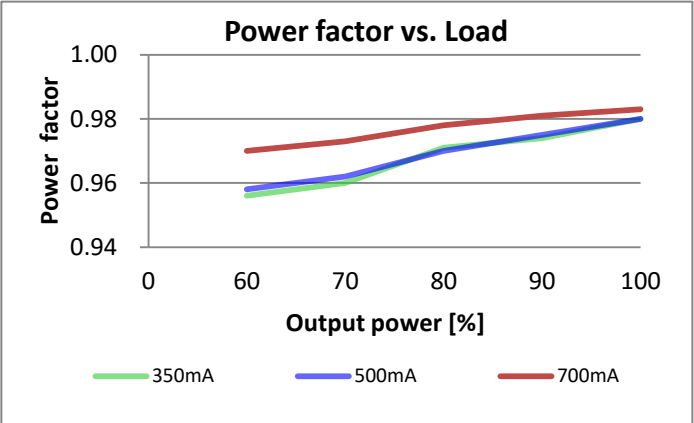
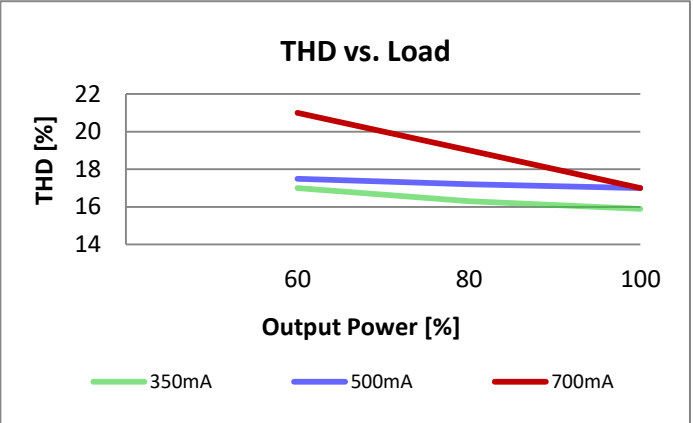
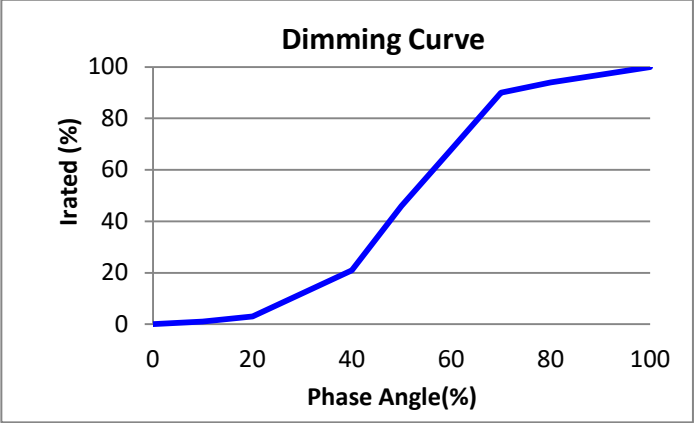
\* If not mentioned, all the test conditions are based on full load at 230VAC input (for 220-240 VAC input).

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

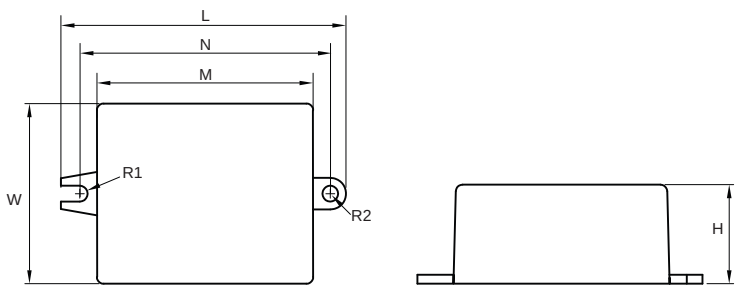
#### Trailing Edge Dimmer list approved by HEP

| Manufacturer | Model     | Q'ty of parallel connection | Min.load(W) |
|--------------|-----------|-----------------------------|-------------|
| Berker       | 2874      | 10                          | 20W         |
| Busch        | 6513U-102 | 10                          | 40W         |
| Busch        | 6519U     | 10                          | 40W         |
| ETMAN        | 321P      | 10                          | 25W         |
| CASAMBI      | CBU-TED   | 14                          | 1W          |

Electrical Values



Physical  
Parameter



L : 63.3 mm      W : 40 mm      H : 23 mm  
M : 48 mm      N : 55.6 mm      R1: 1.75 mm      R2: 3.5 mm

Tolerance : +/-1 mm , R : +/-0.5 mm

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

Wiring Diagram

