



Наличие и актуальные цены на

**PCD-16-1400B**

<https://www.mean-well.ru/store/PCD-16-1400B/>



#### ■ Features :

- AC phase-cut dimming
- Work with leading edge and trailing edge TRIAC dimmers
- 115VAC or 230VAC models available
- Built-in active PFC function
- Constant current design
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- IP42 design
- Class II power unit, no FG
- Class 2 power unit
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)
- 100% full load burn-in test
- Low cost
- High reliability
- 3 years warranty

User's Manual



#### ■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>


PCD-16-350 **A** A : With AC input 90~ 135VAC.  
B : With AC input 180~ 295VAC.

#### SPECIFICATION

| MODEL           |                                         | PCD-16-350 <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PCD-16-700 <input type="checkbox"/>                                                                                                                                                                                                     | PCD-16-1050 <input type="checkbox"/> | PCD-16-1400 <input type="checkbox"/> |     |
|-----------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|-----|
| OUTPUT          | RATED CURRENT                           | 350mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 700mA                                                                                                                                                                                                                                   | 1050mA                               | 1400mA                               |     |
|                 | OPERATING VOLTAGE RANGE                 | 24 ~ 48V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16 ~ 24V                                                                                                                                                                                                                                | 12 ~ 16V                             | 8 ~ 12V                              |     |
|                 | CURRENT ACCURACY                        | ±5.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                         |                                      |                                      |     |
|                 | RATED POWER                             | 16.8W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 16.8W                                                                                                                                                                                                                                   | 16.8W                                | 16.8W                                |     |
|                 | RIPPLE & NOISE (max.) Note.1            | 4.6Vp-p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.7Vp-p                                                                                                                                                                                                                                 | 2.2Vp-p                              | 2Vp-p                                |     |
|                 | NO LOAD OUTPUT VOLTAGE (max.)           | 60V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 35V                                                                                                                                                                                                                                     | 25V                                  | 16V                                  |     |
|                 | SETUP TIME                              | 500ms / 230VAC    2000ms / 115VAC at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                         |                                      |                                      |     |
| INPUT           | FREQUENCY RANGE                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 47 ~ 63Hz                                                                                                                                                                                                                               |                                      |                                      |     |
|                 | POWER FACTOR (Typ.)                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PF>0.9/115VAC, PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)                                                                                                                          |                                      |                                      |     |
|                 | TOTAL HARMONIC DISTORTION               | A series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | THD< 20% when output loading≥70% at 115VAC                                                                                                                                                                                              |                                      |                                      |     |
|                 |                                         | B series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | THD< 20% when output loading≥70% at 230VAC input and output loading≥80% at 277VAC input                                                                                                                                                 |                                      |                                      |     |
|                 | EFFICIENCY (Typ.)                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 82%                                                                                                                                                                                                                                     | 81%                                  | 80.5%                                | 80% |
|                 | AC CURRENT (Typ.)                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.4A/115VAC    0.2A/230VAC    0.15A/277VAC                                                                                                                                                                                              |                                      |                                      |     |
|                 | INRUSH CURRENT(max.)                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | COLD START 10A(twidth=90μs measured at 50% Ipeak) at 115VAC / 230VAC                                                                                                                                                                    |                                      |                                      |     |
|                 | MAX. No. of PSUs on 16A CIRCUIT BREAKER | A series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 58 units (circuit breaker of type B) / 58 units (circuit breaker of type C) at 115VAC                                                                                                                                                   |                                      |                                      |     |
| B series        |                                         | 128 units (circuit breaker of type B) / 128 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                         |                                      |                                      |     |
| LEAKAGE CURRENT |                                         | <0.5mA / 120VAC / 240VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                         |                                      |                                      |     |
| PROTECTION      | SHORT CIRCUIT                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Hiccup mode, recovers automatically after fault condition is removed.                                                                                                                                                                   |                                      |                                      |     |
|                 | OVER TEMPERATURE                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Shut down o/p voltage, re-power on to recover                                                                                                                                                                                           |                                      |                                      |     |
| ENVIRONMENT     | WORKING TEMP.                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -30 ~ +60°C (Refer to "Derating Curve")                                                                                                                                                                                                 |                                      |                                      |     |
|                 | WORKING HUMIDITY                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20 ~ 95% RH non-condensing                                                                                                                                                                                                              |                                      |                                      |     |
|                 | STORAGE TEMP., HUMIDITY                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -40 ~ +80°C, 10 ~ 95% RH                                                                                                                                                                                                                |                                      |                                      |     |
|                 | TEMP. COEFFICIENT                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ±0.03%/°C (0 ~ 50°C)                                                                                                                                                                                                                    |                                      |                                      |     |
|                 | VIBRATION                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes                                                                                                                                                                 |                                      |                                      |     |
| SAFETY & EMC    | SAFETY STANDARDS                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UL8750, CSA C22.2 No. 250.0-08, ENEC BS EN/EN61347.1, BS EN/EN61347-2-13, BS EN/N62384(for B type only), BIS IS15885(for 350B, 700B only),EAC TP TC 004, IP42 approved ; design refer to UL60950-1, BS EN/EN61347-1, BS EN/EN61347-2-13 |                                      |                                      |     |
|                 | WITHSTAND VOLTAGE                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | I/P-O/P:3.75KVAC                                                                                                                                                                                                                        |                                      |                                      |     |
|                 | ISOLATION RESISTANCE                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH                                                                                                                                                                                               |                                      |                                      |     |
|                 | EMC EMISSION                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Compliance to BS EN/EN55015 (B type only), BS EN/EN61000-3-2 Class C ; BS EN/EN61000-3-3, FCC part 18 non-consumer equipment (A type only), EAC TP TC 020                                                                               |                                      |                                      |     |
|                 | EMC IMMUNITY                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024,BS EN/EN61547, light industry level, EAC TP TC 020                                                                                                                          |                                      |                                      |     |
| OTHERS          | MTBF                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6624.6K hrs min. Telcordia SR-332 (Bellcore)    906.5Khrs min.    MIL-HDBK-217F (25°C)                                                                                                                                                  |                                      |                                      |     |
|                 | DIMENSION                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 84*57*29.5mm (L*W*H)                                                                                                                                                                                                                    |                                      |                                      |     |
|                 | PACKING                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.19Kg; 72pcs/14.7Kg/0.92CUFT                                                                                                                                                                                                           |                                      |                                      |     |
| NOTE            |                                         | 1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>2. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.<br>3. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.<br>4. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).<br>5. For any application note and IP water proof function installation caution, please refer our user manual before using.<br><a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a><br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                                                                                                                                                                                                                         |                                      |                                      |     |

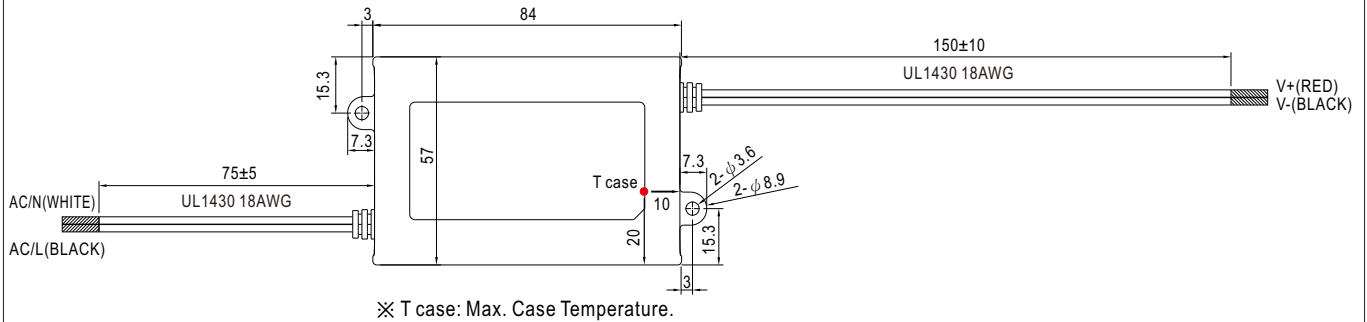
## Mechanical Specification

Case No.PCD16A

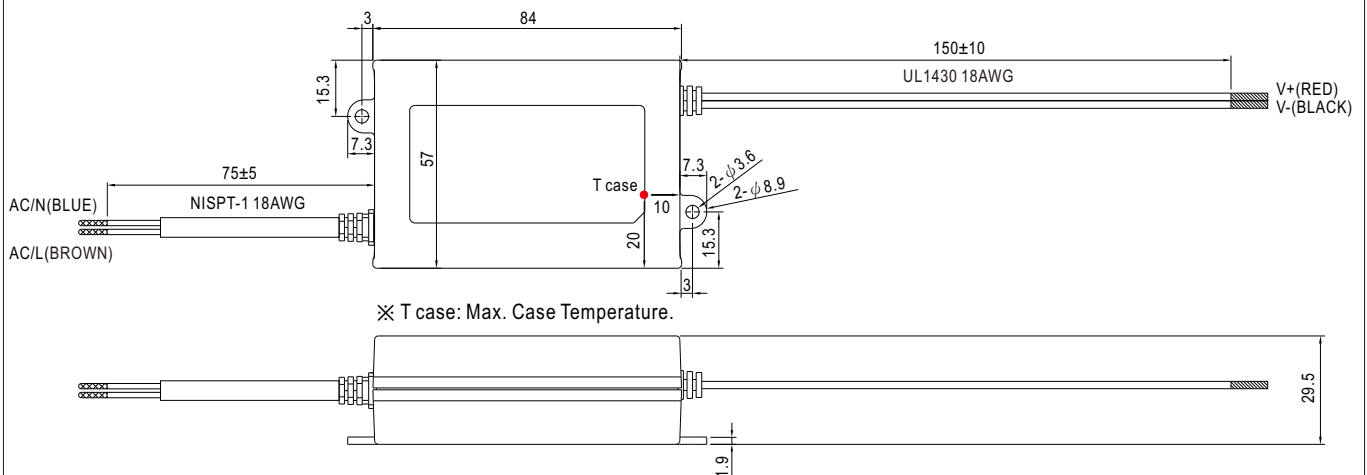
Unit:mm

Tolerance:±1

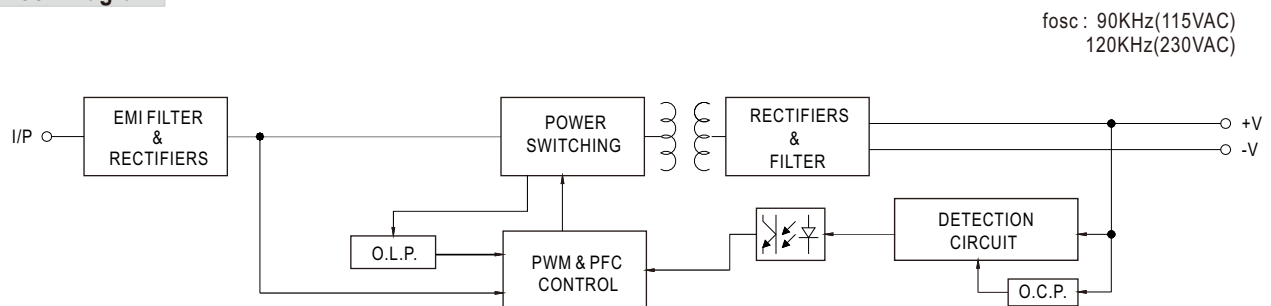
### A Type:(PCD-16\_A)



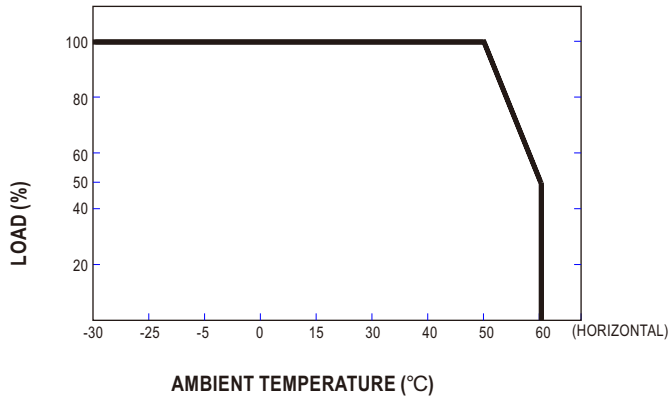
### B Type:(PCD-16\_B)



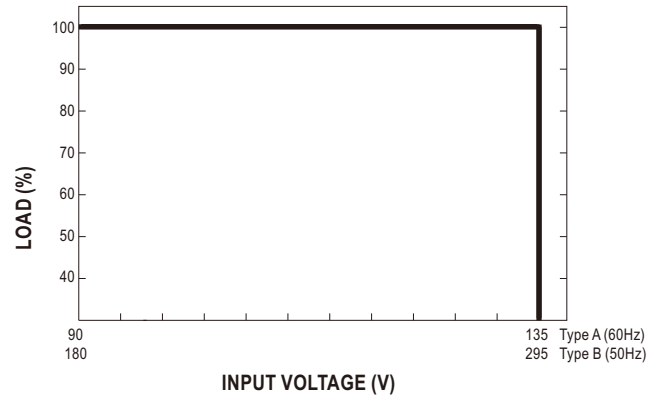
## Block Diagram



## Derating Curve

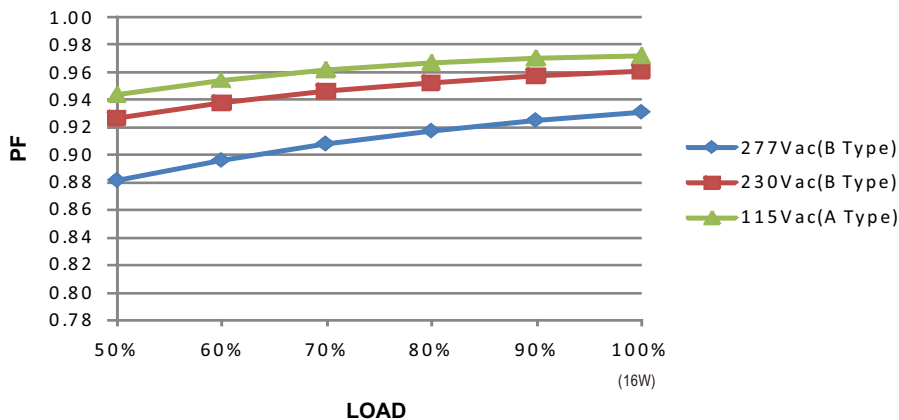


## Static Characteristics



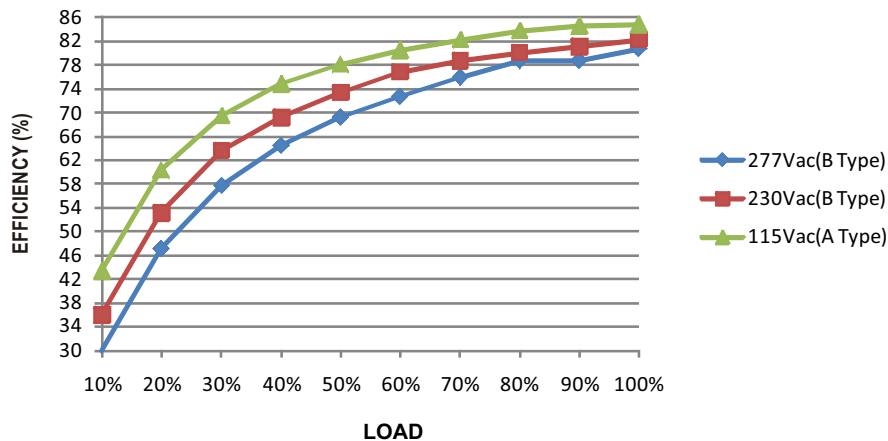
## Power Factor Characteristic

### Constant Current Mode



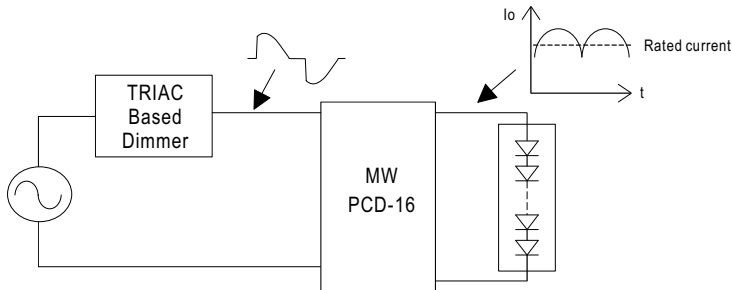
## EFFICIENCY vs LOAD (PCD-16-350)

PCD-16 series possess superior working efficiency that up to 86% can be reached in field applications.



## ■ AC Dimming Operation

◎ The following diagram depicts a typical installation utilizing the PCD-16 :



Under direct driving, the power supply will work in "constant current mode (CC)" and output voltage of the power supply will be clamped by sum of forward voltage (V<sub>F</sub>) of the LED strip.

## ◎ Dimmer Compatibility Chart

| Manufacturer            | Dimmer Model                |                     |
|-------------------------|-----------------------------|---------------------|
| LUTRON                  | SKYLARK SF-12P-277          | (277VAC / 60Hz)     |
| LUTRON                  | DVF-103P-277                | (277VAC / 60Hz)     |
| LUTRON                  | SKYLARK SF-10P              | (120VAC / 60Hz)     |
| LUTRON                  | SKYLARK S-600P              | (120VAC / 60Hz)     |
| LUTRON                  | SKYLARK DVF-103P            | (120VAC / 60Hz)     |
| LEVITON                 | ILLUMATECH TM Cat.No.IP106  | (120VAC / 60Hz)     |
| LEVITON                 | SURESLIDE TM Cat.No.6633-P  | (120VAC / 60Hz)     |
| LEVITON                 | SURESLIDE TM Cat. NO.6615-P | (120VAC / 60Hz)     |
| JUNG                    | Licht-Management 225 TDE    | (230VAC / 50Hz)     |
| JUNG                    | Licht-Management 225 NV DE  | (230VAC / 50Hz)     |
| BERKER                  | Tronic-Drehdimmer 286710    | (230-240VAC / 50Hz) |
| Bodo Ehmann LICHTREGLER | T39.01                      | (230VAC / 50Hz)     |
| CLIPSAL                 | 32E450UDM                   | (220-240VAC / 50Hz) |
| CLIPSAL                 | NO 32E450TM                 | (220-240VAC / 50Hz) |

Conduction angle: 30 degrees(min.) / 180 degrees(max.)