



### Features:

- Input voltage: 170-264V
- Protection: Shortcircuit/overload/overvoltage/overheat
- Working temperature with 60°C
- Cooling by free air convection
- 100% full load burn-in test
- 3 years warranty

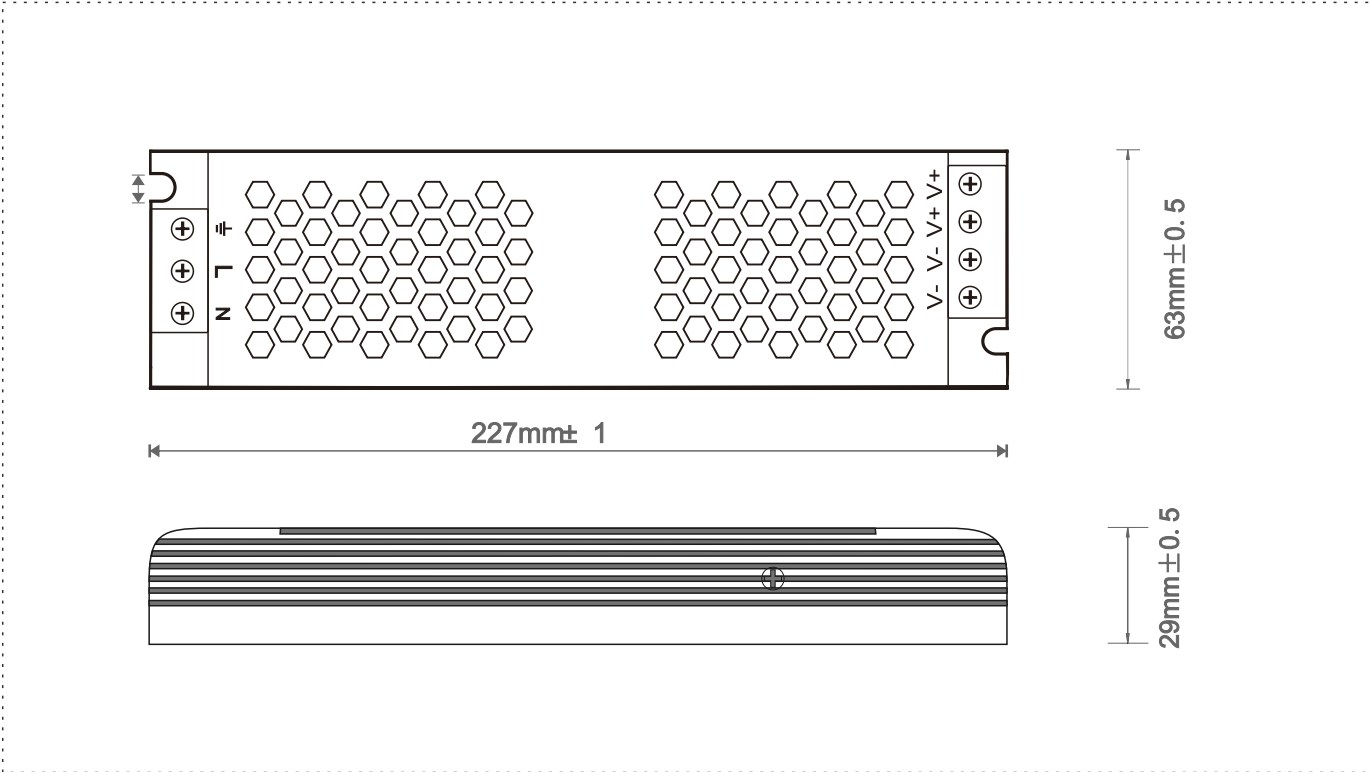
CE RoHS BIS SELV IP20 

### Specification:

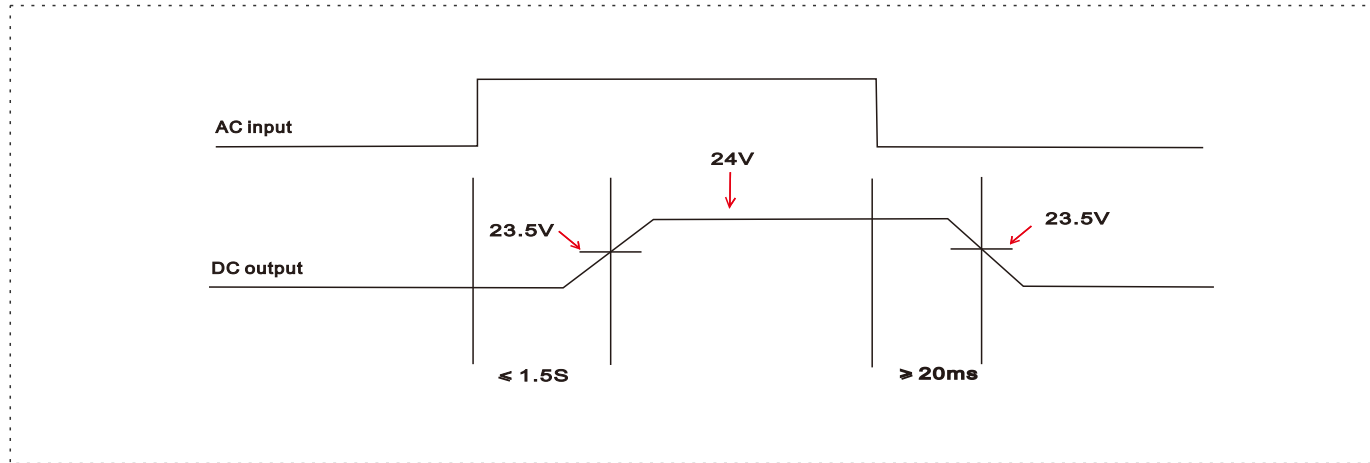
| Model  |                      | HRL-400-12                   | HRL-400-24                   |
|--------|----------------------|------------------------------|------------------------------|
| Output | Voltage DC           | 12V                          | 24V                          |
|        | Voltage Tolerance    | ±0.5V                        | ±0.5V                        |
|        | Current Range        | 33.3A                        | 0 - 16.7A                    |
|        | Rated Current        | 33.3A                        | 16.7A                        |
|        | Rated Power          | 400W                         | 400W                         |
|        | Ripple & Noise(Max.) | 250mVp-p                     | 250mVp-p                     |
|        | Line Regulation      | ±0.5% at full load           | ±0.5% at full load           |
|        | Load Regulation      | ±0.5% at full load           | ±0.5% at full load           |
|        | Setup, Rise Time     | 500ms,80ms/230V at full load | 500ms,80ms/230V at full load |
|        | Hold-up Time         | 50ms /230VAC at full load    | 50ms /230VAC at full load    |

|              |  |   |       |
|--------------|--|---|-------|
| Input        | Voltage Range  | 170-264V  |       |
|              | Frequency Range  | 50 - 60Hz   |       |
|              | Leakage Current  | < 0.5mA/260VAC  |       |
|              | Inrush Current   | ≤ 60A   |       |
|              | Power Factor   | pf ≈ 0.55 /230VAC at full load  |       |
|              | AC Current(Max.)   | 3.37A/230VAC 6.82A/115VAC   |       |
|              | Efficiency(typ.)   | 83.8%   | 88.5% |
| Protection   | Short Circuit  | Protection type:Hiccup mode,recovers automatically after fault condition is removed |       |
|              | Over Load  | Hiccup mode, recovers automatically after fault condition is removed                |       |
|              | Burnt-in Test  | Input voltage:220V 50Hz rated output current 25°C Bum-in 2h                         |       |
| Environment  | Vibration  | 10-500Hz,5G 12min./1 cycle, period for 60min. each along x,y,z axes                 |       |
|              | Over Temperature   | 100°C±10 °C shut down o/p voltage,re-power on to recover                            |       |
|              | Start Rise Hold Time   | 1500ms,20ms,50ms/230VAC at full load  |       |
|              | Working Humidity   | 20~60%RH,non-condensing   |       |
|              | Storage TEM, Humidity  | -20 ~ +85%,10 ~ 95%RH   |       |
|              | Working TEMP.  | -20 ~ +50°C   |       |
| Safety & EMC | Safety Standards   | CE Mark   |       |
|              | Withstand Voltage  | I/P-O/P:1.5KVAC I/P-GND:1.5KVAC   |       |
|              | EMC Immunity   | EN55015:2013;EN61547:2009; EN61000-3-2:2014; EN61000-3-3:2013                       |       |
| Others       | Weight   | 460g  |       |
|              | Package  | 30pcs/CTN   |       |
|              | Dimension  | 227x63x29mm(LxWxH)  |       |
| Notes        | <ol style="list-style-type: none"> <li>All parameters not specially mentioned are measured at 230VAC input , rated load and 25°C of ambient temperature.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualify EMC directive on the complete installation again.</li> <li>Length of set up time is measured at cold first start. Turning on/off the power supply very quickly may lead to increase of the set up time.</li> </ol> |   |       |

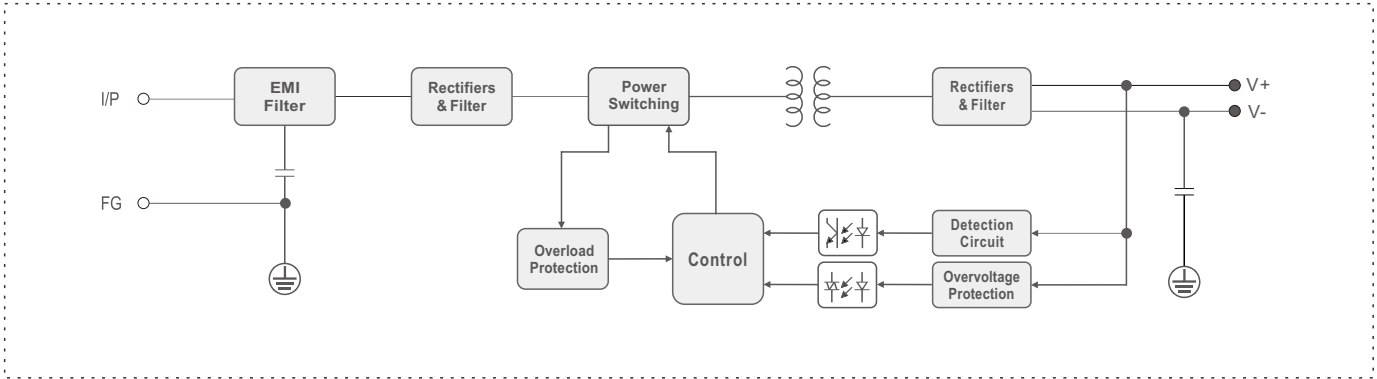
### Mechanical Specification:



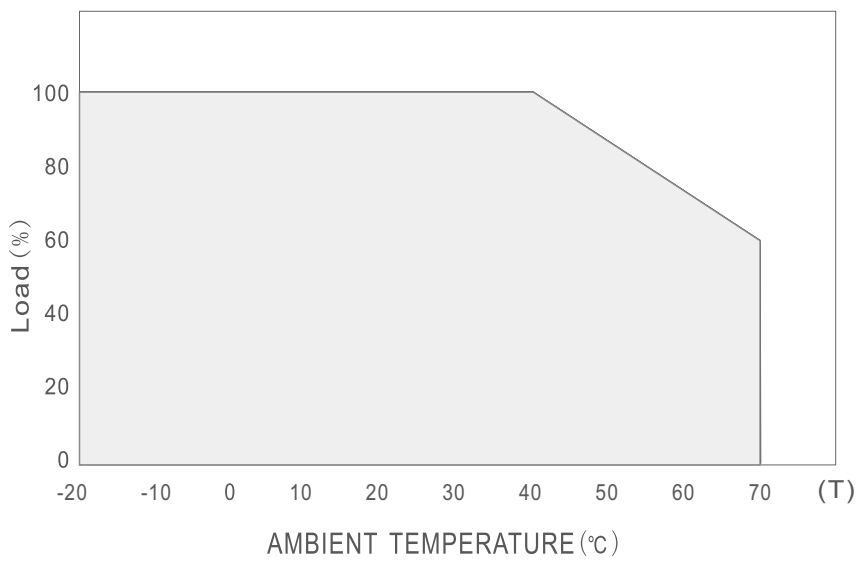
### Switching Time Curve:



## Block Diagram:



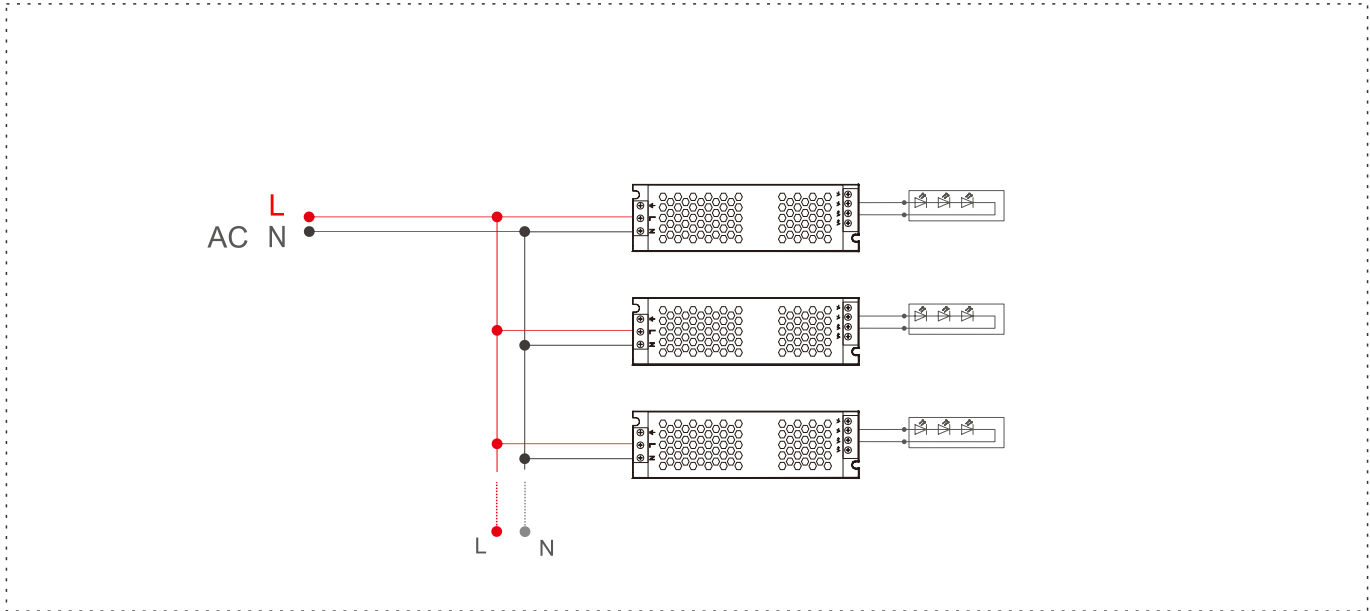
## Derating Curve:



## Package details:

|               |                     |
|---------------|---------------------|
| Weight:       | 460g/PCS,13.6kg/CTN |
| Quantity:     | 30PCS/Carton        |
| Carton Size:  | 35x24.5x22.5CM      |
| Product Size: | 227x63x29mm(LxWxH)  |

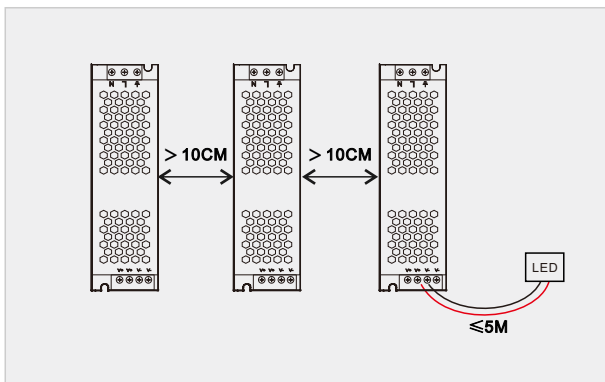
## Wiring Diagram:



## Installation Notes:

- ※1. The distance between two products should be  $< 10\text{cm}$ , so as not to affect heat dissipation and the lifespan of the products.
- ※2. The distance between products and the LED input terminal should be  $< 5\text{ meters}$ .

At least 10 cm spacing:



Not to be installed closely:

