



# HLL LED Power Units series

## - Overview -

**LED Constant Current Driver Modules (LPUs)** - The HLL series of LED Power Units are true constant current regulated drivers for LEDs. Unlike standard power supplies, which deliver a fixed output voltage, Hirel Japan's LPUs are designed to vary the output voltage as required, to deliver a constant current to the LEDs, reliably and with stability. They are the ideal choice for powering 10W, 20W and 100W LED lighting applications involving all types of high-brightness, high-power LED packages and LED arrays. These series exhibit high efficiency and require no external current limiting resistor or additional heat sink for operation.

- **20W Module:**

[HLL20-1836/xx-yy](#), [HLL20-3064/xx-yy](#)

(reference only for 10W part - [HLL10-0516/1C-G](#))

Most of the 10W and 20W cases are covered by the 20W unit option. To reach or take advantage of 20W, several LED's must be chained in series. Two options are available; 18 to 30V DC output range and 30 to 60V DC output range. The unit can deliver from 60mA to 1A max with a current adjust by potentiometer. Therefore the number of LED's depends on the LED's voltage/power.

The unit is not made for one or two LEDs only.

Examples:

3W LED's --> max 6 and unit 18 to 30V must be selected

1W LED's --> max 18 and unit 30 to 60V must be selected

- **100W Module:**

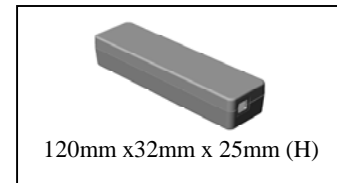
[HLL100-1836/4.2B-NC](#)

The unit applies to 60 to 100W LED lighting applications

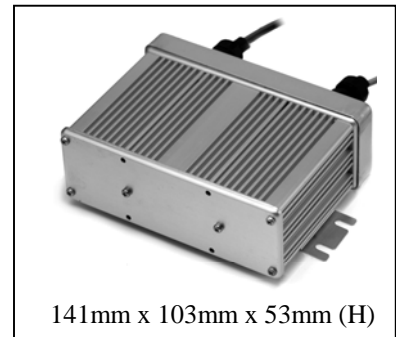
Output DC voltage of 18 to 36V

Output current 2.5A to 4.2A adjustable by potentiometer

6 to 8 LED's per string. Number of parallel strings according to selected power LED's



120mm x 32mm x 25mm (H)



141mm x 103mm x 53mm (H)

### **Related applications:**

- LED desk lamps
- Wall / Advertisement Panels LED backlighting
- Building LED lighting
- Building LED decorations
- Factory LED floor lighting
- Street, floor or emergency LED lighting
- Replacement of mercury lamps
- LED lighting stands,
- Window LED lighting panels

*NOTE: development of custom modules for target marketing opportunities would be considered*

### **Green/Low Standby Power AC Adaptors**

Hirel Japan offers custom ultra small high efficiency AC-DC Power Supplies that reduce power, heat and cost. Regular adaptors kept connected to AC line, are eating precious power even when those equipments are turned off. Hirel Japan's Green Adaptors are designed to consume only 50~150mW average standby power.

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