


## Recommend Mounting Direction



## Block Diagram



Derating Curve
Static Characteristics


- Power Factor Characteristic



## - EFFICIENCY vs LOAD (48V Model)

LPF-25D series possess superior working efficiency that up to $86 \%$ can be reached in field applications.


## DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.


Typical LED power supply I-V curve

25W Single Output Switching Power Supply

## DIMMING OPERATION


※ Output constant current level can be adjusted through output cable by $1 \sim 10 \mathrm{Vdc}, 10 \mathrm{~V}$ PWM signal or resistance between DIM+ and DIM-.
※ Reference resistance value for output current adjustment (Typical)

|  | Single driver | $10 \mathrm{~K} \Omega$ | $20 \mathrm{~K} \Omega$ | $30 \mathrm{~K} \Omega$ | $40 \mathrm{~K} \Omega$ | 50Kת | $60 \mathrm{~K} \Omega$ | $70 \mathrm{~K} \Omega$ | $80 \mathrm{~K} \Omega$ | $90 \mathrm{~K} \Omega$ | $100 \mathrm{~K} \Omega$ | OPEN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| value | Multiple drivers (N=diver cuandity for synchronized dimming operation) | 10K $/$ / N | 20K $/$ / N | 30K $/$ / N | 40K/ $/ \mathrm{N}$ | 50K $/$ / N | 60Kת/N | 70K $/$ / N | 80K $/$ /N | 90K $/$ / N | 100KS/N | ----- |
| Percentage of rated current |  | 10\% | 20\% | 30\% | 40\% | 50\% | 60\% | 70\% | 80\% | 90\% | 100\% | 95\% $108 \%$ |

※ $1 \sim 10 \mathrm{~V}$ dimming function for output current adjustment (Typical)

| Dimming value | 1 V | 2 V | 3 V | 4 V | 5 V | 6 V | 7 V | 8 V | 9 V | 10 V | OPEN |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: |
| Output current | $10 \%$ | $20 \%$ | $30 \%$ | $40 \%$ | $50 \%$ | $60 \%$ | $70 \%$ | $80 \%$ | $90 \%$ | $100 \%$ | $95 \% \sim 108 \%$ |

※ 10V PWM signal for output current adjustment (Typical): Frequency range :100~3KHz

| Duty value | $10 \%$ | $20 \%$ | $30 \%$ | $40 \%$ | $50 \%$ | $60 \%$ | $70 \%$ | $80 \%$ | $90 \%$ | $100 \%$ | OPEN |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Output current | $10 \%$ | $20 \%$ | $30 \%$ | $40 \%$ | $50 \%$ | $60 \%$ | $70 \%$ | $80 \%$ | $90 \%$ | $100 \%$ | $95 \% \sim 108 \%$ |

Dimming connection diagram for turning the lighting fixture ON/OFF :


Using a switch and relay can turn ON/OFF the lighting fixture.

1. Output constant current level can be adjusted through output cable by connecting a resistor or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
2. The LED lighting fixture can be turned ON/OFF by the switch
