



**Magnetic Power Supply 一体化磁吸专用电源**

Model 型号: KGP-XXXV48N



| Model<br>型号 | Rated Input<br>Voltage<br>输入电压 | Input<br>Power<br>输入功率 | Input<br>Current<br>输入电流 | PF<br>功率因数 | Output Power<br>Range<br>输出功率范围 | Output<br>Voltage<br>输出电压 | Output<br>Current<br>输出电流 | Efficiency<br>效率 |
|-------------|--------------------------------|------------------------|--------------------------|------------|---------------------------------|---------------------------|---------------------------|------------------|
| KGP-100V24N | 220-240VAC                     | ≤111W                  | ≤0.6A                    | ≥0.95      | 0-100W                          | 24V                       | 0-4.2A                    | ≥90%             |
| KGP-100V48N |                                | ≤111W                  | ≤0.6A                    |            | 0-100W                          | 48V                       | 0-2.1A                    |                  |
| KGP-150V48N |                                | ≤166W                  | ≤1A                      |            | 0-150W                          |                           | 0-3.12A                   |                  |
| KGP-250V48N |                                | ≤275W                  | ≤1.5A                    |            | 0-250W                          |                           | 0-5.21A                   |                  |

\* Test result @230V, 50Hz, Full Load. 所有测试参数基于@230V, 50Hz, 满载

## 1. Parameters 参数表

| Categor 类别     | Item 项目                        | Technical Norm 技术指标                                                                                                    |
|----------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Features<br>特性 | Output Type 输出类型               | Constant Voltage/恒压                                                                                                    |
|                | Dimming Type 调光类型              | N/A                                                                                                                    |
|                | Output Features 输出特性           | Isolation 隔离                                                                                                           |
|                | IP Grade 等级                    | IP20                                                                                                                   |
|                | Insulation Class 绝缘等级          | Class II                                                                                                               |
| Input<br>输入参数  | Rated Input Voltage 额定输入电压     | 220-240VAC                                                                                                             |
|                | Range of Input Voltage 输入电压范围  | 176-264VAC                                                                                                             |
|                | Frequency 输入频率                 | 50/60Hz                                                                                                                |
|                | Input Current 输入电流             | KGP-100V24N: ≤0.6A<br>KGP-100V48N: ≤0.6A<br>KGP-150V48N: ≤1A<br>KGP-250V48N: ≤1.5A<br>(230VAC, full load /230VAC 满载)   |
|                | Input Power 输入功率               | KGP-100V24N: ≤111W<br>KGP-100V48N: ≤111W<br>KGP-150V48N: ≤166W<br>KGP-250V48N: ≤275W<br>(230VAC, full load /230VAC 满载) |
|                | Power Factor 功率因数              | ≥0.95 (230VAC, full load /230VAC 满载)                                                                                   |
|                | THD 谐波                         | ≤10% (230VAC, full load /230VAC 满载)                                                                                    |
|                | No-load Power Consumption 空载功耗 | ≤1W @230VAC                                                                                                            |
|                | Inrush Current 涌入电流            | ≤80A/200us (230VAC, full load/230VAC 满载)                                                                               |
| Output<br>输出参数 | Output Voltage 输出电压            | 48VDC+/-3%                                                                                                             |
|                | No Load Voltage 空载电压           | 49.5VDC Max.                                                                                                           |
|                | Output PWM Frequency 输出 PWM 频率 | N/A                                                                                                                    |
|                | Output Current 输出电流            | 100W:0 -2.1A /150W:0-3.12A/250W:0-5.21A                                                                                |





科谷电源

Power the world · power the future

驱动世界 · 驱动未来

|                        |                                     |                                                                                                      |
|------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------|
|                        | Max. Output Power 最大输出功率            | 100W/150W/250W                                                                                       |
|                        | Efficiency 效率                       | ≥90% (230VAC, full load /230VAC 满载)                                                                  |
|                        | Voltage Ripple 纹波电压                 | <5% (Vmax-Vmin) / (Vmax+Vmin)                                                                        |
|                        | Start up Time 启动时间                  | ≤0.5S (230VAC, full load /230VAC 满载)                                                                 |
| Control Method<br>控制方式 | PWM dimming PWM 调光                  | N/A                                                                                                  |
|                        | 1-10V (0-10V) dimming 1-10V (0-10V) | N/A                                                                                                  |
|                        | Resistance dimming 电阻调光             | N/A                                                                                                  |
|                        | Dimming range 调光范围                  | N/A                                                                                                  |
| Protection<br>保护特性     | Short Circuit Protection 短路保护       | Auto Recovery /自动恢复                                                                                  |
|                        | Overload Protection 过载保护            | Auto Recovery /自动恢复                                                                                  |
|                        | No-load Protection 空载保护             | Auto Recovery /自动恢复                                                                                  |
|                        | Insulation voltage 绝缘电压             | I/P to O/P, 3.0KVac/5mA/1min                                                                         |
|                        | Insulation resistance 绝缘电阻          | >100M ohm @ 500VDC                                                                                   |
|                        | Leakage current 漏电流                 | I/P to O/P < 250μA@230AC input                                                                       |
| Environment<br>使用环境    | Ta/Operation Temperature 工作温度       | -25....+50°C                                                                                         |
|                        | Ts/Storage Temperature 储存温度         | -40....+85°C                                                                                         |
|                        | Tc/Enclosure Temperature 外壳温度       | 90°C                                                                                                 |
|                        | Humidity 湿度                         | 10%....90%RH                                                                                         |
|                        | Atmosphere 大气压强                     | 86-108KPa                                                                                            |
| Construction<br>安装     | Connection Method 连接方式              | 触点式                                                                                                  |
|                        | Installation 安装方式                   | Independent/独立式                                                                                      |
|                        | PRI Wire preparation 输入线径           | 0.75-1.5 <sup>□</sup>                                                                                |
|                        | SEC Wire preparation 输出线径           | N/A                                                                                                  |
|                        | Dimension 尺寸                        | 268*22*44mm (L*W*H)                                                                                  |
| Standards<br>标准        | Certification 证书                    | CCC/SAA/CE                                                                                           |
|                        | Safety Standards 安全标准               | EN61347-1:2015,EN61347-2-13:2014/A1:2017,EN 62493:2015, AS61347.2.13:2018,AS/NZS 61347.1:2016 Inc A1 |
|                        | EMC Standards 电磁兼容标准                | EN55015:2013/A1:2015,EN61000-3-2:2014,EN61000-3-3:2013,EN61547:2009                                  |
|                        | Performance 性能标准                    | EN62384                                                                                              |
|                        | Surge 浪涌                            | L-N& L/N-PE:2KV                                                                                      |
| Others<br>其它           | RoHS 环保                             | 2011/65/EU                                                                                           |
|                        | Life Time 寿命                        | 50000h @230VAC Full load(End of Life: Failure Rate<10%/ @ 230VAC 满载 (使用寿命终止: 故障率<10%                 |
|                        | Warranty 质保                         | 5years , F.R. < 10000ppm                                                                             |

Remark:

1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.所有参数无特别说明, 均在输入电压 230VAC/50Hz 和 25°C的环境温度下测得。

2.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.LED 电源作为整灯中的一个零部件与终端设备结合使用, 因 EMC 性能受 LED 灯具以及走线的影响, 终端设备制造商需对整套装置重新进行 EMC 确认。

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## 1. Label (For example) 铭牌 (示例)

|                                                                                                                                                                |                                                                               |                                                                                                                             |                                                                         |                                                                                    |                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>INPUT</b><br><input type="radio"/> ACL BN<br><input type="radio"/> ACN BU<br><b>MADE IN CHINA</b><br><a href="http://www.kg-power.com">www.kg-power.com</a> | <b>KGP</b><br>KGP Electronics GmbH<br>Humboldtstr. 19<br>DE-69511 Lüdenscheid | <b>LED Driver 控制装置</b><br>MODEL/型号: KGP-100V24N<br>Constant Voltage Type/恒压<br>INPUT/输入: 220-240V~ Max 0.6A 50/60Hz PF≥0.95 | OUTPUT/输出: 24V~0-4.20A<br>RATED POWER/额定功率: 100W<br>For LED Module only |  | <b>OUTPUT</b><br>Vo+ — BN <input type="radio"/><br>Vo- — BU <input type="radio"/> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

|                                                                                                                                                                |                                                                               |                                                                                                                             |                                                                         |                                                                                    |                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>INPUT</b><br><input type="radio"/> ACL BN<br><input type="radio"/> ACN BU<br><b>MADE IN CHINA</b><br><a href="http://www.kg-power.com">www.kg-power.com</a> | <b>KGP</b><br>KGP Electronics GmbH<br>Humboldtstr. 19<br>DE-69511 Lüdenscheid | <b>LED Driver 控制装置</b><br>MODEL/型号: KGP-100V48N<br>Constant Voltage Type/恒压<br>INPUT/输入: 220-240V~ Max 0.6A 50/60Hz PF≥0.95 | OUTPUT/输出: 48V~0-4.20A<br>RATED POWER/额定功率: 100W<br>For LED Module only |  | <b>OUTPUT</b><br>Vo+ — BN <input type="radio"/><br>Vo- — BU <input type="radio"/> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

|                                                                                                                                                                |                                                                               |                                                                                                                             |                                                                         |                                                                                    |                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>INPUT</b><br><input type="radio"/> ACL BN<br><input type="radio"/> ACN BU<br><b>MADE IN CHINA</b><br><a href="http://www.kg-power.com">www.kg-power.com</a> | <b>KGP</b><br>KGP Electronics GmbH<br>Humboldtstr. 19<br>DE-69511 Lüdenscheid | <b>LED Driver 控制装置</b><br>MODEL/型号: KGP-250V48N<br>Constant Voltage Type/恒压<br>INPUT/输入: 220-240V~ Max 1.5A 50/60Hz PF≥0.95 | OUTPUT/输出: 48V~0-5.21A<br>RATED POWER/额定功率: 250W<br>For LED Module only |  | <b>OUTPUT</b><br>Vo+ — BN <input type="radio"/><br>Vo- — BU <input type="radio"/> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

|                                                                                                                                                                |                                                                               |                                                                                                                           |                                                                         |                                                                                    |                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>INPUT</b><br><input type="radio"/> ACL BN<br><input type="radio"/> ACN BU<br><b>MADE IN CHINA</b><br><a href="http://www.kg-power.com">www.kg-power.com</a> | <b>KGP</b><br>KGP Electronics GmbH<br>Humboldtstr. 19<br>DE-69511 Lüdenscheid | <b>LED Driver 控制装置</b><br>MODEL/型号: KGP-150V48N<br>Constant Voltage Type/恒压<br>INPUT/输入: 220-240V~ Max 1A 50/60Hz PF≥0.95 | OUTPUT/输出: 48V~0-3.12A<br>RATED POWER/额定功率: 150W<br>For LED Module only |  | <b>OUTPUT</b><br>Vo+ — BN <input type="radio"/><br>Vo- — BU <input type="radio"/> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

## 2. Connected quantities of different current Breaker 不同断路器的数量

100W 150W:

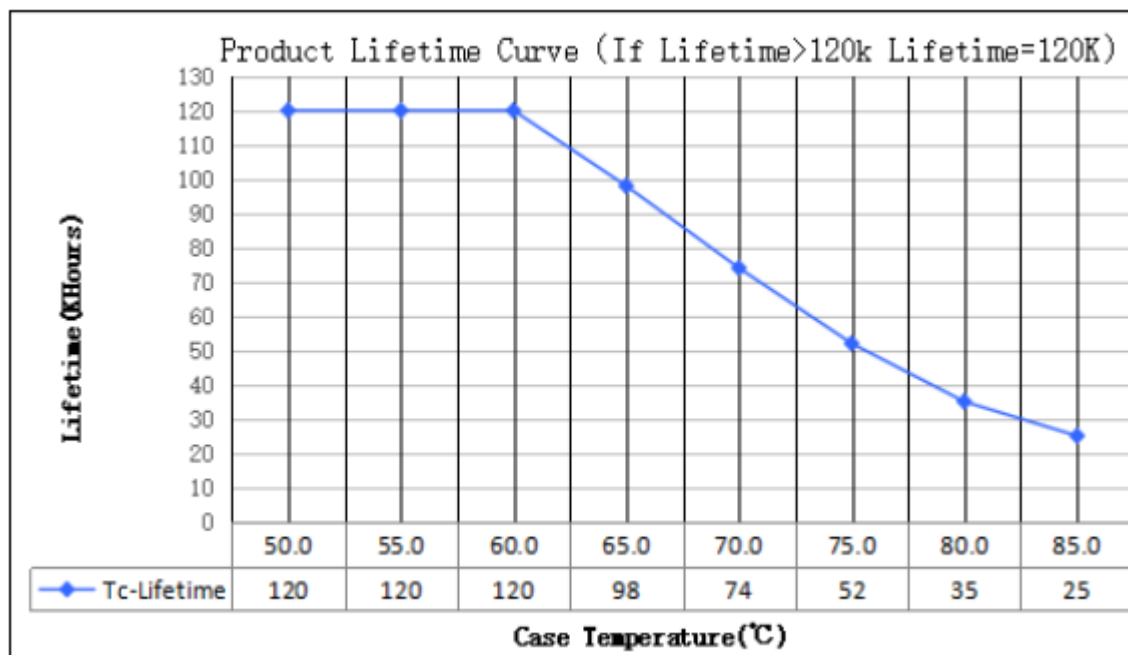
| TYPE   | Connected quantities of different current Breaker |                    |                    |                    |                  |                  | Input Voltage | Inrush Current | Time  |
|--------|---------------------------------------------------|--------------------|--------------------|--------------------|------------------|------------------|---------------|----------------|-------|
|        | current (A)                                       | 10                 | 13                 | 16                 | 20               | 25               |               |                |       |
|        | Installation wire diameter                        | 1.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 4mm <sup>2</sup> | 4mm <sup>2</sup> |               |                |       |
| TYPE B |                                                   | 12                 | 16                 | 19                 | 24               | 30               | @ 230VAC      | 50             | 400μs |
| TYPE C |                                                   | 19                 | 25                 | 31                 | 38               | 48               |               |                |       |
| TYPE D |                                                   | 31                 | 40                 | 49                 | 61               | 77               |               |                |       |

250W:

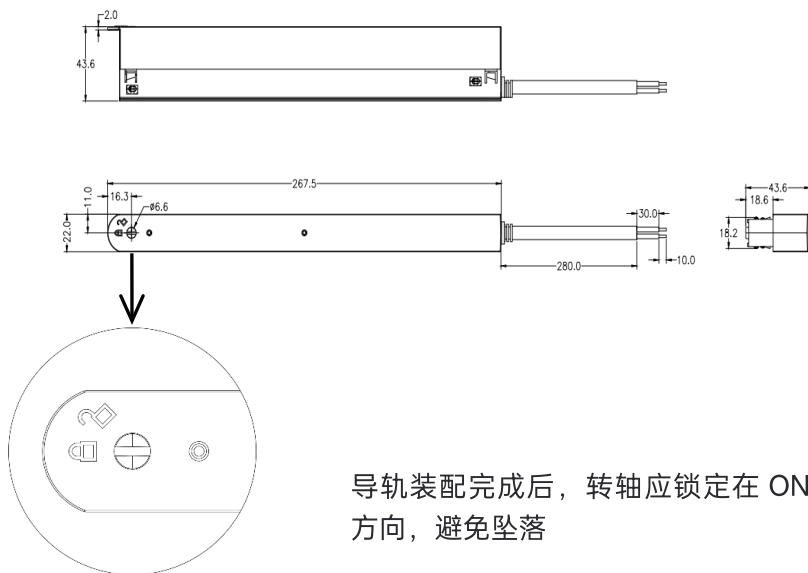
| TYPE   | Connected quantities of different current Breaker |                    |                    |                    |                  |                  | Input Voltage | Inrush Current | Time  |
|--------|---------------------------------------------------|--------------------|--------------------|--------------------|------------------|------------------|---------------|----------------|-------|
|        | current (A)                                       | 10                 | 13                 | 16                 | 20               | 25               |               |                |       |
|        | Installation wire diameter                        | 1.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 4mm <sup>2</sup> | 4mm <sup>2</sup> |               |                |       |
| TYPE B |                                                   | 8                  | 10                 | 12                 | 15               | 19               | @ 230VAC      | 80             | 400μs |
| TYPE C |                                                   | 12                 | 16                 | 19                 | 24               | 30               |               |                |       |
| TYPE D |                                                   | 19                 | 25                 | 31                 | 38               | 48               |               |                |       |



### 3. Lifetime curve 寿命曲线



### 4. Dimension (Unit: mm) / 尺寸 (Unit: mm)



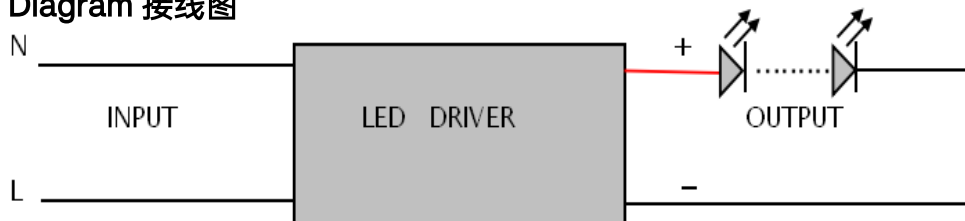
导轨装配完成后，转轴应锁定在 ON 方向，避免坠落

### 5. Packing information/包装信息

| Carton/纸箱尺寸<br>L*W*H(mm) | Pcs/Carton<br>数量/箱 | Net weight/<br>Pcs(kg)净重/个 | Net weight/<br>Carton(kg)净重/箱 | Gross weight /<br>Carton(kg)毛重/箱 |
|--------------------------|--------------------|----------------------------|-------------------------------|----------------------------------|
| 315*305*190MM            | 30                 | 0.334                      | 10                            | 11.8                             |



## 6. Wiring Diagram 接线图



## 7. Wiring instructions 接线说明

- All connections must be kept as short as possible to ensure good EMI behaviour

所有的连接线尽可能的短，以保证良好的 EMI

- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)

电源线应和驱动器以及其他连接线保持一定的距离（建议 5-10cm）

- Advice the maximum length of output wires is 3 m

建议输出线的最大长度不超过 3m

- Secondary switching is not permitted (Except for constant voltage)

不允许二次侧开关（恒压除外）

- Incorrect wiring can damage LED modules.

错误的布线会损坏 LED 模组

- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)

防止线路电线对地短路。（尖锐的金属零件、金属电缆夹、百叶窗等）

## 8. REVISION HISTORY 修订历史

| DATE 日期    | VER 版本 | REMARK 备注               |
|------------|--------|-------------------------|
| 2024-07-06 | V1.0   | Initial release. (初始发布) |
|            |        |                         |
|            |        |                         |
|            |        |                         |
|            |        |                         |
|            |        |                         |
|            |        |                         |

