

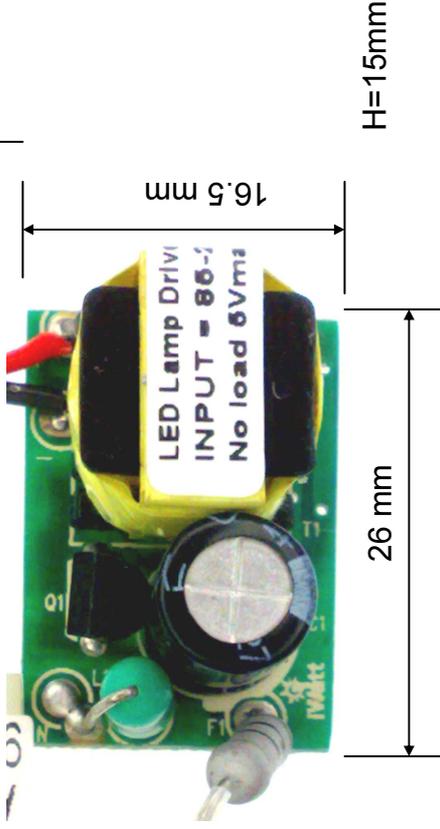
LED驱动电源产品目录

PGET0801: LED Driver 1X1W

Input: 90V-264V; Output: 3.5V, CC@ 350mA

EE13 transformer, CC tolerance +/-5%

Efficiency 65%; Isolated ; meet EMI



PGET0802: LED Driver 1X3W

Input: 90V-264V; Output: 3.5V, CC@ 700mA

EE13 transformer, CC tolerance +/-5%

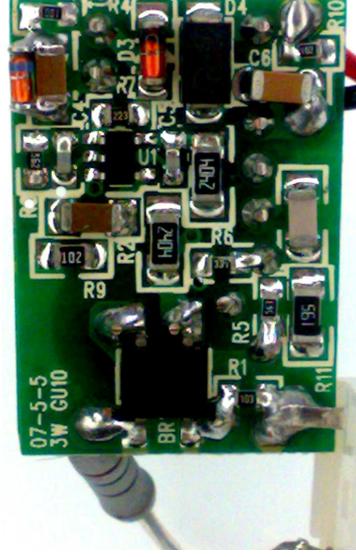
Efficiency 68%; Isolated ; meet EMI

PGET0803: LED Driver 3X1W

Input: 90V-264V; Output: 10V, CC@ 350mA

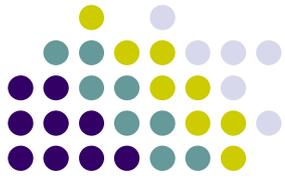
EE13 transformer, CC tolerance +/-5%

Efficiency 72%; Isolated ; meet EMI

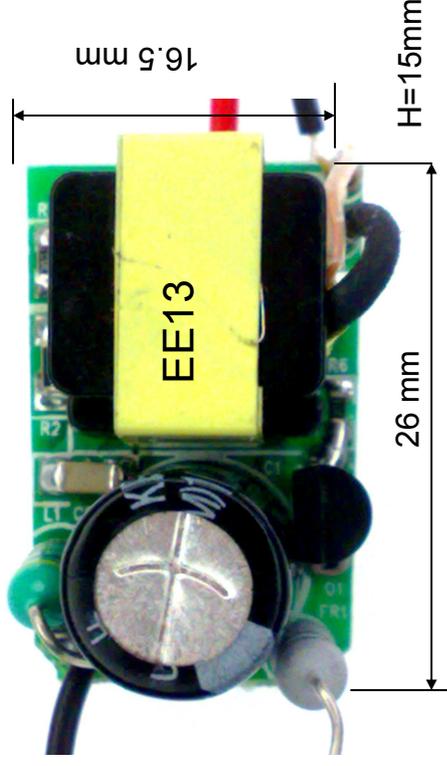


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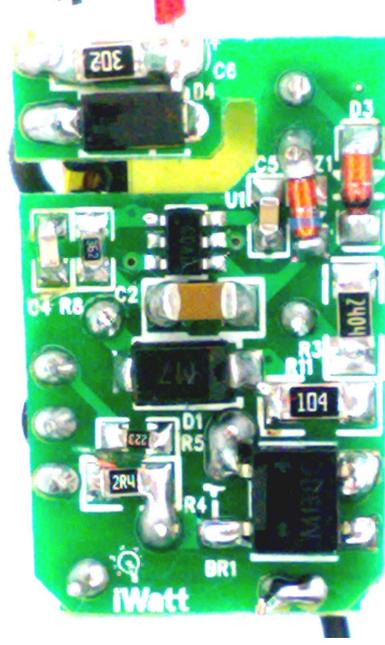
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PGET0804: LED Driver 1X1W
Input: 90V-264V; Output: 3.5V, CC@ 350mA
EE13 transformer, CC tolerance +/-5%
Efficiency 65%; Isolated ; meet EMI



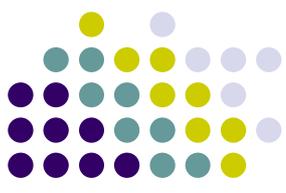
PGET0805: LED Driver 1X3W
Input: 90V-264V; Output: 3.5V, CC@ 700mA
EE13 transformer, CC tolerance +/-5%
Efficiency 65%; Isolated ; meet EMI



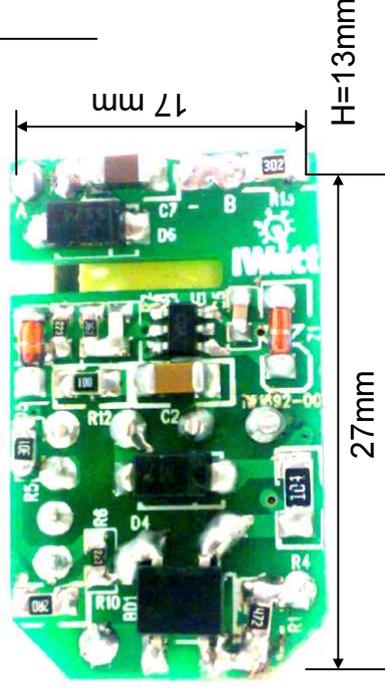
PGET0806: LED Driver 3X1W
Input: 90V-264V; Output: 10V, CC@ 350mA
EE13 transformer, CC tolerance +/-5%
Efficiency 72%; Isolated ; meet EMI

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PGET0807: LED Driver 1X1W
Input: 90V-264V; Output: 3.5V, CC@ 350mA
EFD15 transformer, CC tolerance +/-5%
Efficiency 65%; Isolated ; meet EMI



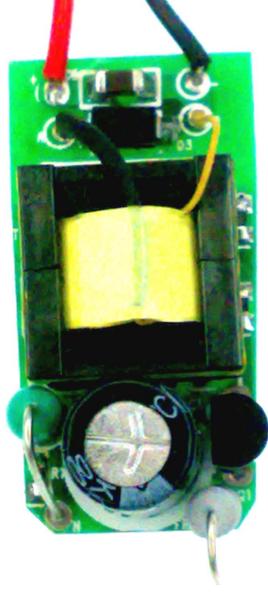
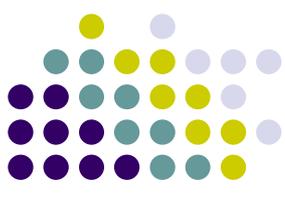
PGET0808: LED Driver 1X3W
Input: 90V-264V; Output: 3.5V, CC@ 700mA
EFD15 transformer, CC tolerance +/-5%
Efficiency 68%; Isolated ; meet EMI



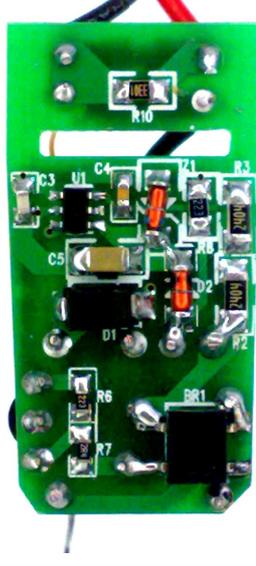
PGET0809: LED Driver 3X1W
Input: 90V-264V; Output: 10V, CC@ 350mA
EFD15 transformer, CC tolerance +/-5%
Efficiency 72%; Isolated ; meet EMI

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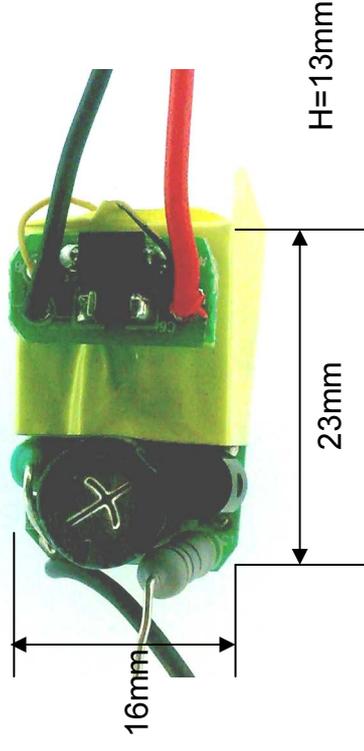
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PGET0810: LED Driver 1X1W
Input: 90V-264V; Output: 3.5V, CC@ 350mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 65%; Isolated ; meet EMI



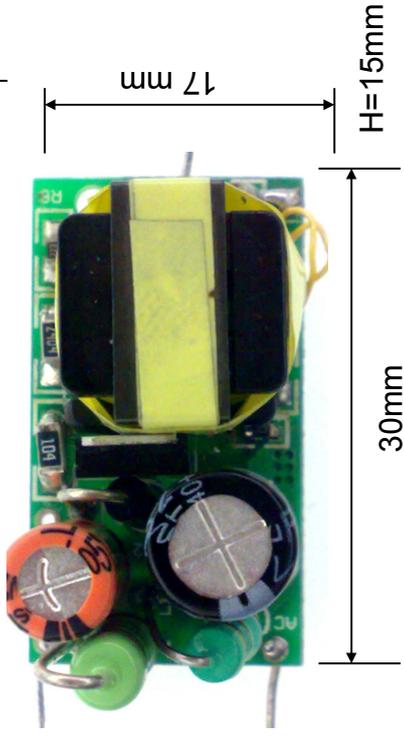
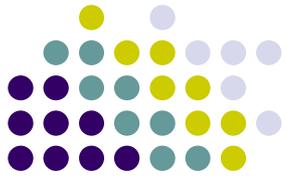
PGET0811: LED Driver 1X3W
Input: 90V-264V; Output: 3.5V, CC@ 700mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 63%; Isolated ; meet EMI



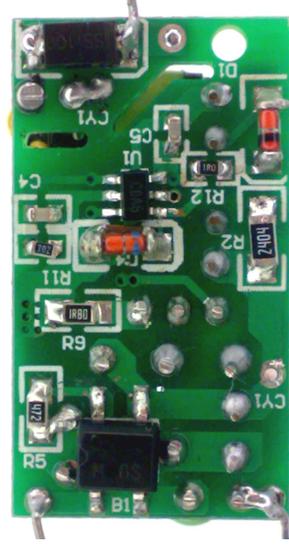
PGET0812: LED Driver 3X1W
Input: 90V-264V; Output: 10V, CC@ 350mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 70%; Isolated ; meet EMI

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PGET0813: LED Driver 5X1W
Input: 90V-264V; Output: 16V, CC@ 350mA
EE13 transformer, CC tolerance +/-5%
Efficiency 78%; Isolated ; meet EMI



PGET0814: LED Driver 3X2W
Input: 90V-264V; Output: 12V, CC@ 450mA
EE13 transformer, CC tolerance +/-5%
Efficiency 75%; Isolated ; meet EMI

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PGET0815: LED Driver 7X1W

Input: 90V-264V; Output: 24.5V, CC@ 350mA

EE19 transformer, CC tolerance +/-5%

PAR30 Efficiency 82%; Isolated ; meet EMI

PGET0816: LED Driver 3X2W

Input: 90V-264V; Output: 11V, CC@ 600mA

EE19V transformer, CC tolerance +/-5%

PAR30 Efficiency 78%; Isolated ; meet EMI

PGET0817: LED Driver 7X1W

Input: 90V-264V; Output: 24.5V, CC@ 350mA

EE19 transformer, CC tolerance +/-5%

PAR30 Efficiency 82%; Isolated ; meet EMI

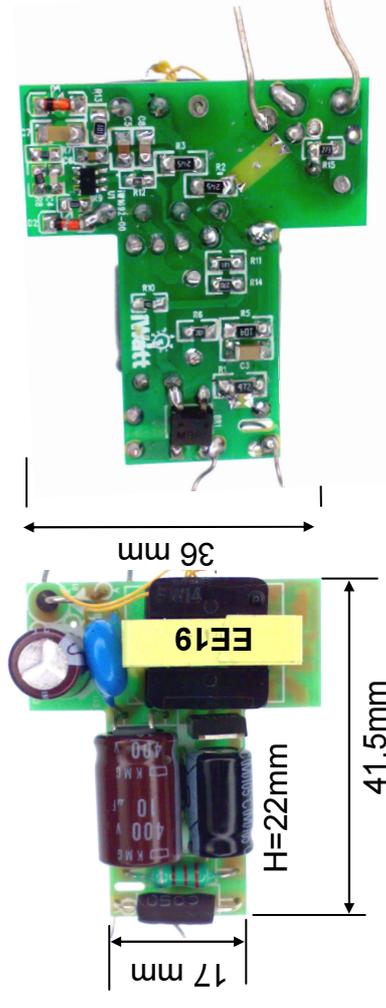
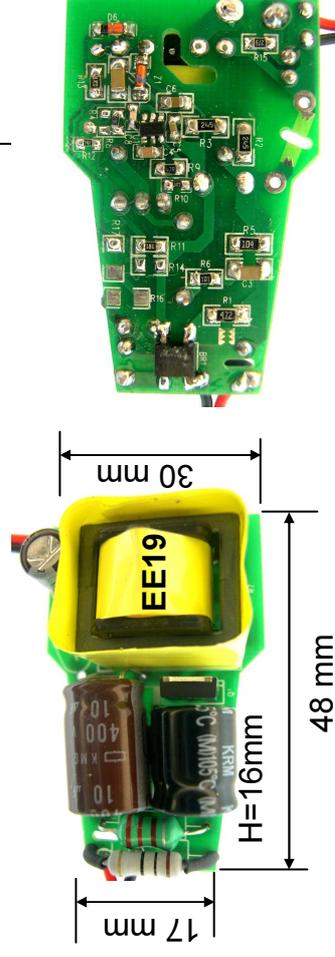
PGET0818: LED Driver 3X2W

Input: 90V-264V; Output: 11V, CC@ 600mA

EE19 V transformer, CC tolerance +/-5%

PAR30 Efficiency 78%; Isolated ; meet EMI

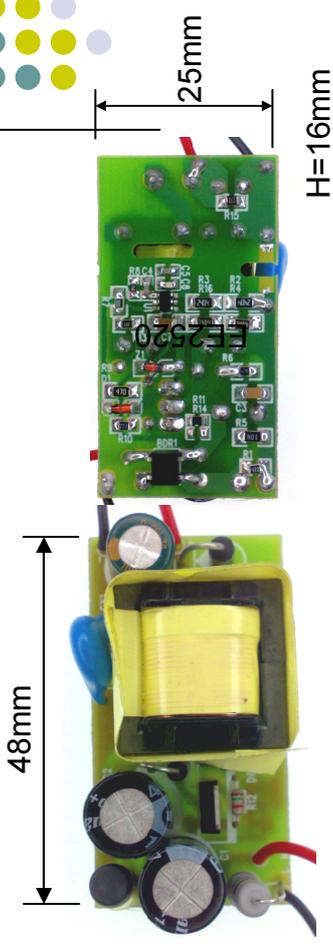
Type A



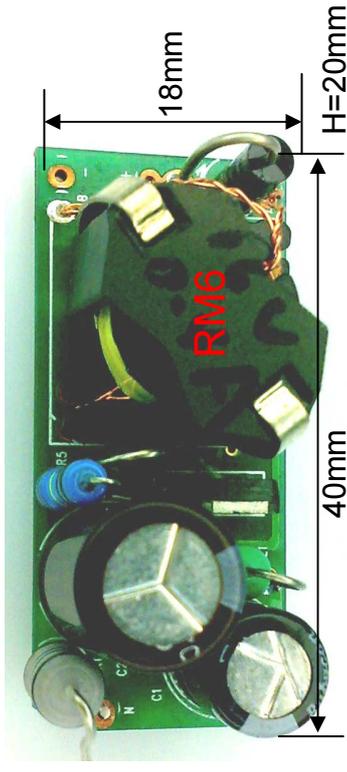
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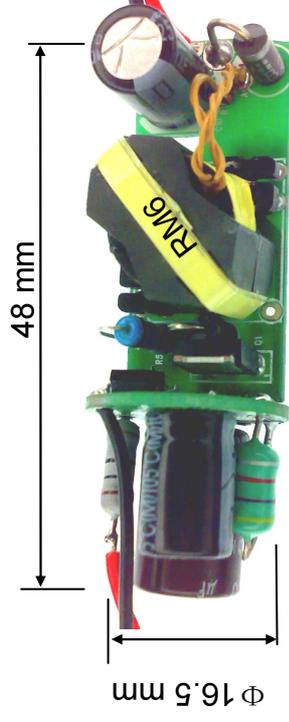
PGET0819: LED Driver 7X1W
Input: 90V-264V; Output: 24.5V, CC@ 350mA
EE20 transformer, CC tolerance +/-5%
Efficiency 82%; Isolated ; meet EMI



PGET0820: LED Driver 5X2W
Input: 90V-264V; Output: 18V, CC@ 450mA
RM6 transformer, CC tolerance +/-5%
Efficiency 83%; Isolated ; meet EMI



PGET0821: LED Driver 3X3W
Input: 90V-264V; Output: 11V, CC@ 700mA
RM6 transformer, CC tolerance +/-5%
Efficiency 82%; Isolated ; meet EMI



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PGET0822: LED Driver 10X1W

Input: 90V-264V; Output: 35V, CC@ 350mA

**RM8 transformer, CC tolerance +/-5%
Efficiency 83%; Isolated ; meet EMI**

PGET0823: LED Driver 12X1W

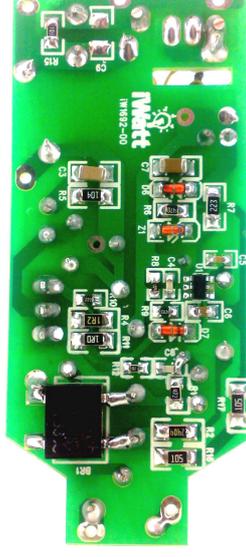
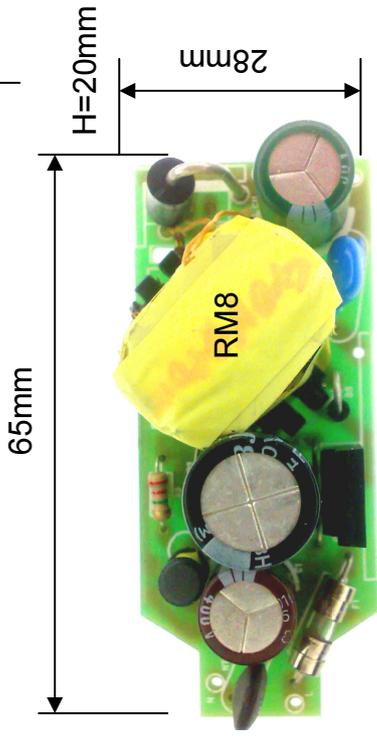
Input: 90V-264V; Output: 40V, CC@ 350mA

**RM8 transformer, CC tolerance +/-5%
Efficiency 84%; Isolated ; meet EMI**

PGET0824: LED Driver 6X3W

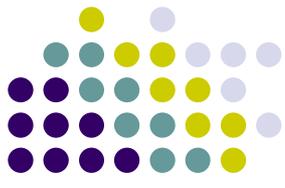
Input: 90V-264V; Output: 22V, CC@ 700mA

**RM8 transformer, CC tolerance +/-5%
Efficiency 84%; Isolated ; meet EMI**



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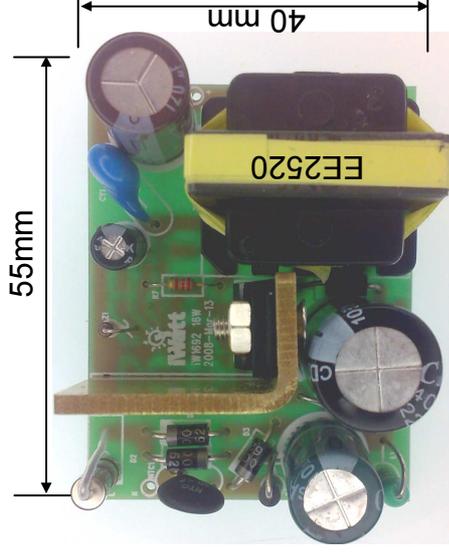
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PGET0825: LED Driver 10X1W

Input: 90V-264V; Output: 35V, CC@ 350mA

**EE2520 transformer, CC tolerance +/-5%
Efficiency 84%; Isolated ; meet EMI**



H=25mm

PGET0826: LED Driver 12X1W

Input: 90V-264V; Output: 40V, CC@ 350mA

**EE2520 transformer, CC tolerance +/-5%
Efficiency 84%; Isolated ; meet EMI**

PGET0827: LED Driver 7X3W

Input: 90V-264V; Output: 27V, CC@ 700mA

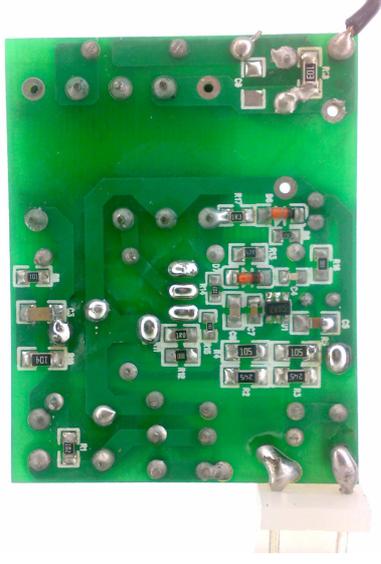
**EE2520 transformer, CC tolerance +/-5%
Efficiency 84%; Isolated ; meet EMI**

Product solutions:

13W LED ___ 18V 0.7A η =83%

19W LED ___ 27V 0.7A η =85%

21W LED ___ 62V0.30A η =85%

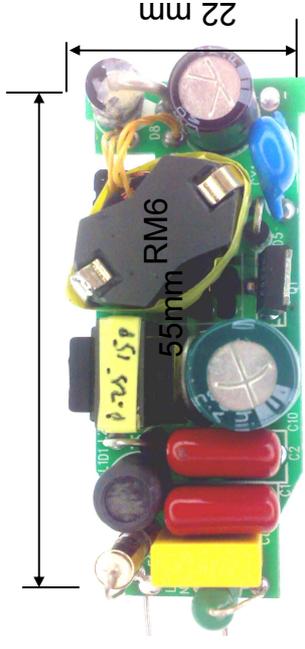


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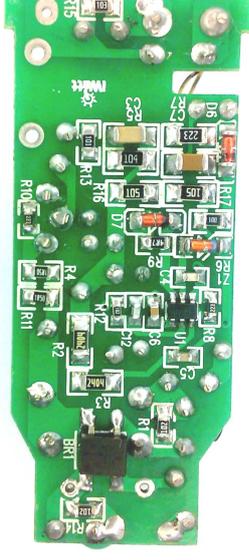


PGET0828: LED Driver 5X1W
Input: 90V-264V; Output: 16V, CC@ 350mA
RM6 transformer, CC tolerance +/-5%
Efficiency 82%; Isolated ; meet EMI
High PF and low harmonic



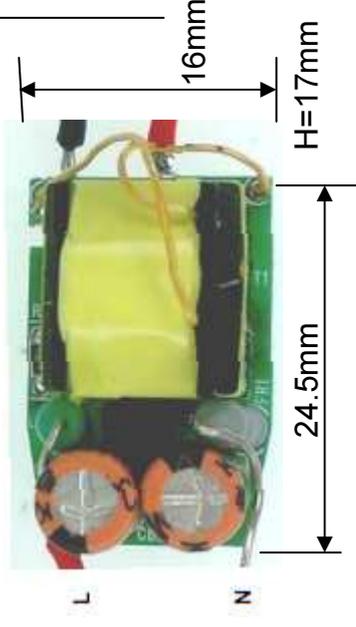
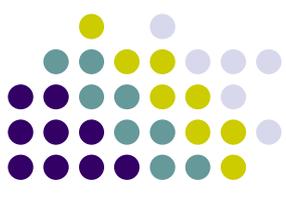
H=12mm

PGET0829: LED Driver 3X3W
Input: 90V-264V; Output: 11V, CC@ 500mA
RM6 transformer, CC tolerance +/-5%
Efficiency 80%; Isolated ; meet EMI
High PF and low harmonic



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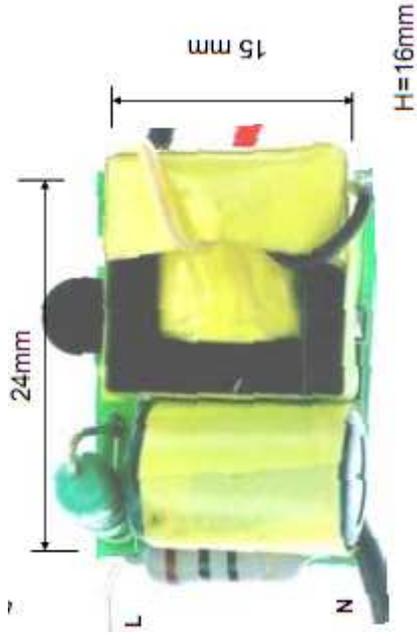
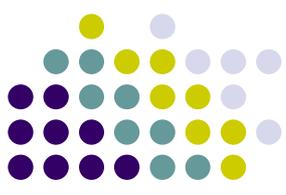
PGET0901: LED Driver 1X1W
Input: 90V-264V; Output: 3.5V, CC@ 350mA
EE13 transformer, CC tolerance +/-5%
Efficiency 65%; Isolated ; meet EMI

PGET0902: LED Driver 1X3W
Input: 90V-264V; Output: 3.5V, CC@ 700mA
EE13 transformer, CC tolerance +/-5%
Efficiency 70%; Isolated ; meet EMI

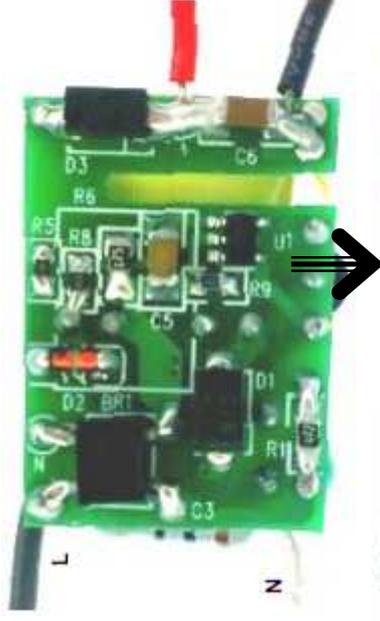
PGET0903: LED Driver 3X1W
Input: 90V-264V; Output: 10.5V, CC@ 350mA
EE13 transformer, CC tolerance +/-5%
Efficiency 76%; Isolated ; meet EMI

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PGET0904: LED Driver 1X1W
Input: 90V-264V; Output: 3.5V, CC@ 350mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 65%; Isolated ; meet EMI

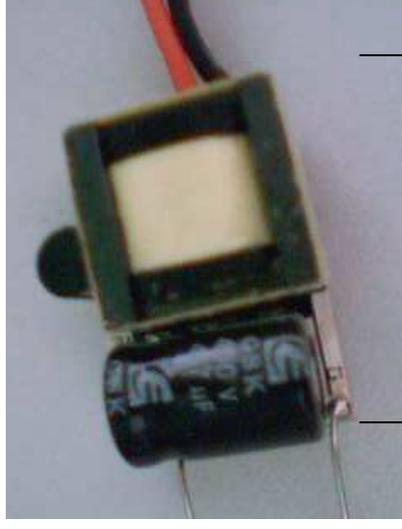


PGET0905: LED Driver 1X3W
Input: 90V-264V; Output:3.5V, CC@ 700mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 70%; Isolated ; meet EMI



PGET0906: LED Driver 3X1W
Input: 90V-264V; Output: 10.5V, CC@ 350mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 76%; Isolated ; meet EMI

PGET0907: LED Driver 1X1W
Input: 90V-264V; Output: 3.5V, CC@ 350mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 65%; Isolated



16mm
H=13mm

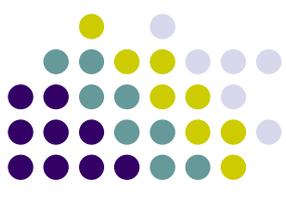
PGET0908: LED Driver 1X3W
Input: 90V-264V; Output: 3.5V, CC@ 700mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 70%; Isolated



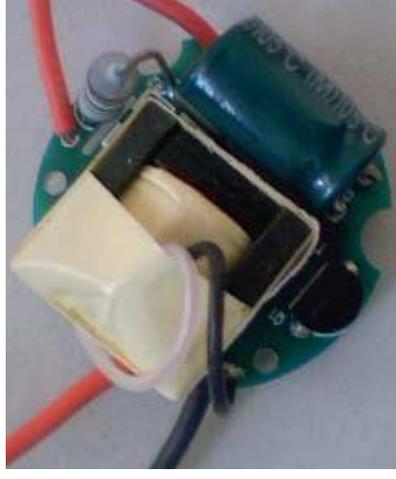
PGET0909: LED Driver 3X1W
Input: 90V-264V; Output: 10.5V, CC@ 350mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 76%; Isolated



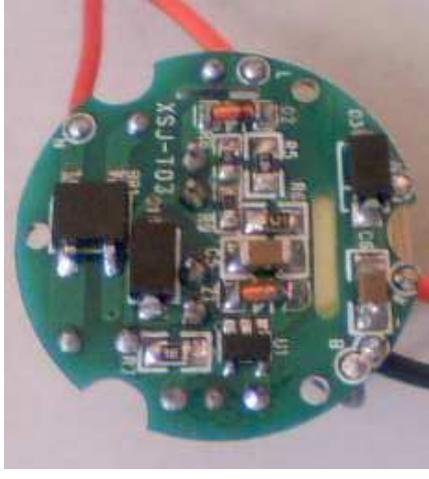
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PGET0910: LED Driver 1X1W
Input: 90V-264V; Output: 3.5V, CC@ 350mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 65%; Isolated



PGET0911: LED Driver 1X3W
Input: 90V-264V; Output: 3.5V, CC@ 700mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 70%; Isolated

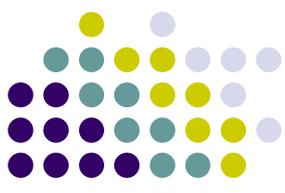


PGET0912: LED Driver 3X1W
Input: 90V-264V; Output: 10.5V, CC@ 350mA
EPC13 transformer, CC tolerance +/-5%
Efficiency 76%; Isolated



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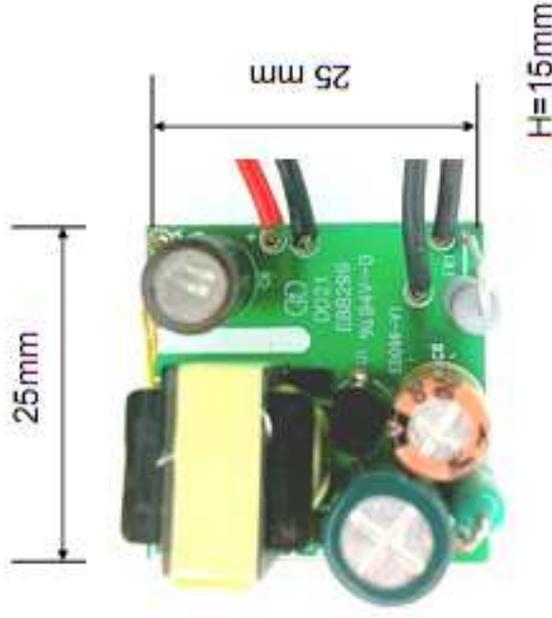


PGET0913: LED Driver 1X3W

Input: 90V-264V; Output: 5V, CC@ 700mA

EE13 transformer, CC tolerance +/-5%

Efficiency 70%; Isolated ; meet EMI



PGET0914: LED Driver 3X1W

Input: 90V-264V; Output: 12V, CC@ 350mA

EE13 transformer, CC tolerance +/-5%

Efficiency 76%; Isolated ; meet EMI



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PGET0915: LED Driver 7X1W
Input: 90V-264V; Output: 24.5V, CC@ 350mA
EE20 transformer, CC tolerance +/-5%
Efficiency 82%; Isolated ; **meet EMI for FCC**



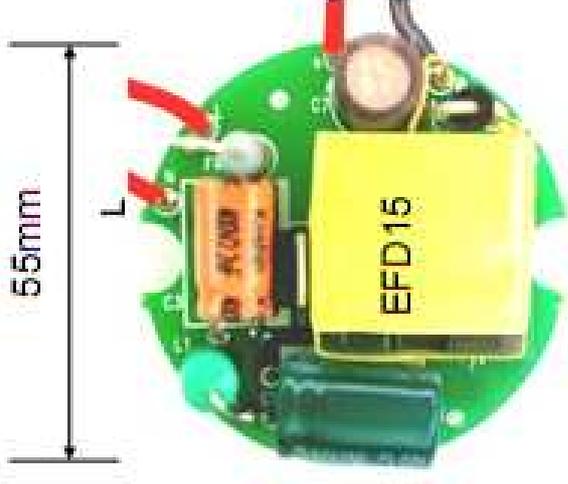
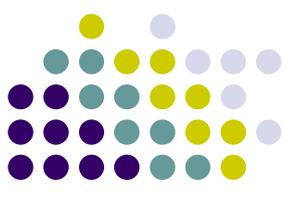
PGET0916: LED Driver 5X2W
Input: 90V-264V; Output: 18V, CC@ 450mA
RM6 transformer, CC tolerance +/-5%
Efficiency 83%; Isolated ; **meet EMI for FCC**



PGET0917: LED Driver 3X3W
Input: 90V-264V; Output: 11V, CC@ 700mA
RM6 transformer, CC tolerance +/-5%
Efficiency 82%; Isolated ; **meet EMI for FCC**

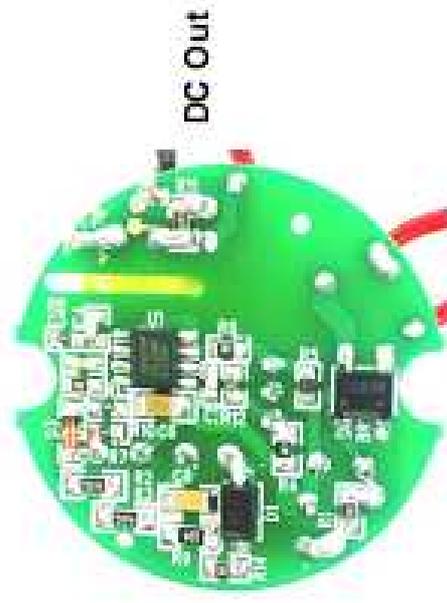
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PGET0918: LED Driver 5X1W
Input: 90V-264V; Output: 18V, CC@ 350mA
EFD15 transformer, CC tolerance +/-5%
Efficiency 83%; Isolated ; meet EMI

H=13mm



PGET0919: LED Driver 3X2W
Input: 90V-264V; Output: 12V, CC@ 500mA
EFD15 transformer, CC tolerance +/-5%
Efficiency 81%; Isolated ; meet EMI

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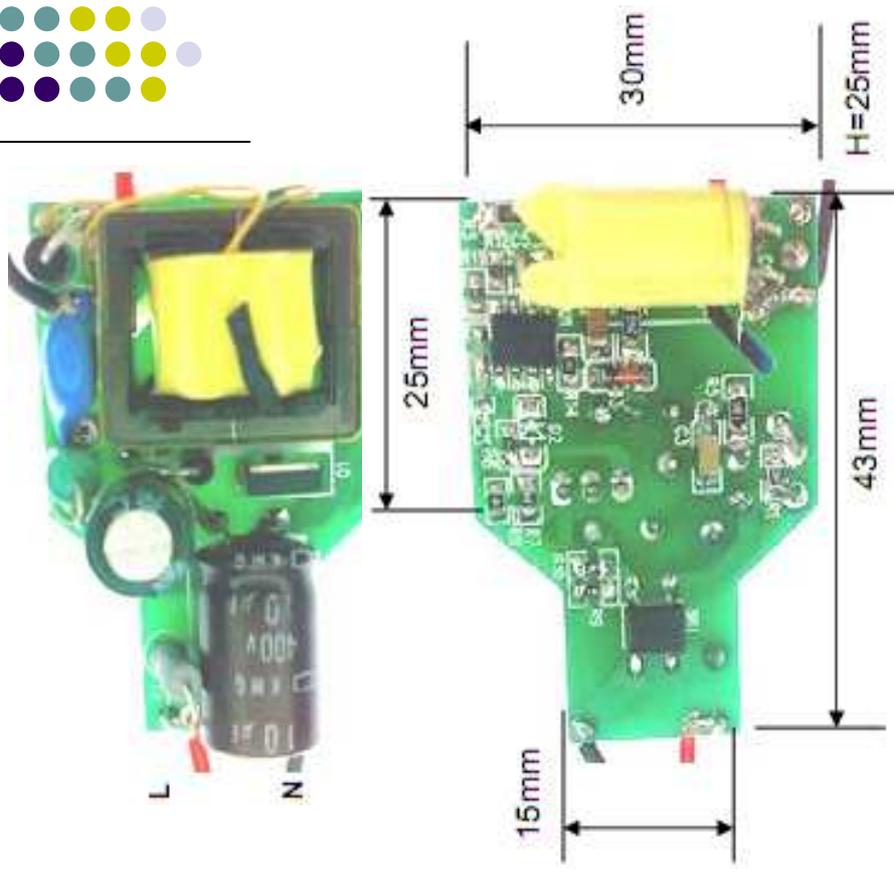
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PGET0920: LED Driver 7X1W
Input: 90V-264V; Output: 24.5V, CC@ 350mA
EE1916 transformer, CC tolerance +/-5%
Efficiency 83%; Isolated ; meet EMI

PGET0921: LED Driver 5X2W
Input: 90V-264V; Output: 18V, CC@ 500mA
EE1916 transformer, CC tolerance +/-5%
Efficiency 82%; Isolated ; meet EMI

PGET0922: LED Driver 3X3W
Input: 90V-264V; Output: 12V, CC@ 700mA
EE1916 transformer, CC tolerance +/-5%
Efficiency 82%; Isolated ; meet EMI



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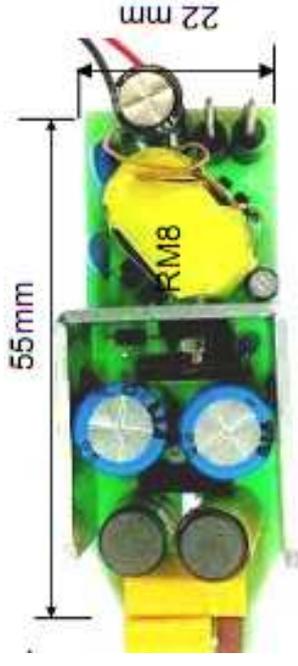


PGET0923: LED Driver 10X3W

Input: 90V-264V; Output: 42V, CC@ 700mA

**RM8 transformer, CC tolerance +/-5%
Efficiency 87%; Isolated ; meet EMI**

Passive PFC>0.85 Low harmonic



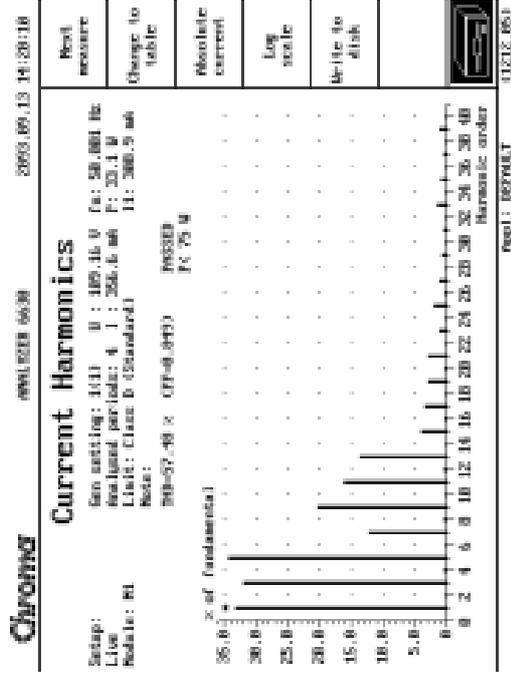
PGET0924: LED Driver 15X1W

Input: 90V-264V; Output: 55V, CC@ 350mA

**RM8 transformer, CC tolerance +/-5%
Efficiency 88%; Isolated ; meet EMI**

Passive PFC>0.85 Low harmonic

H=12mm



PAR 38



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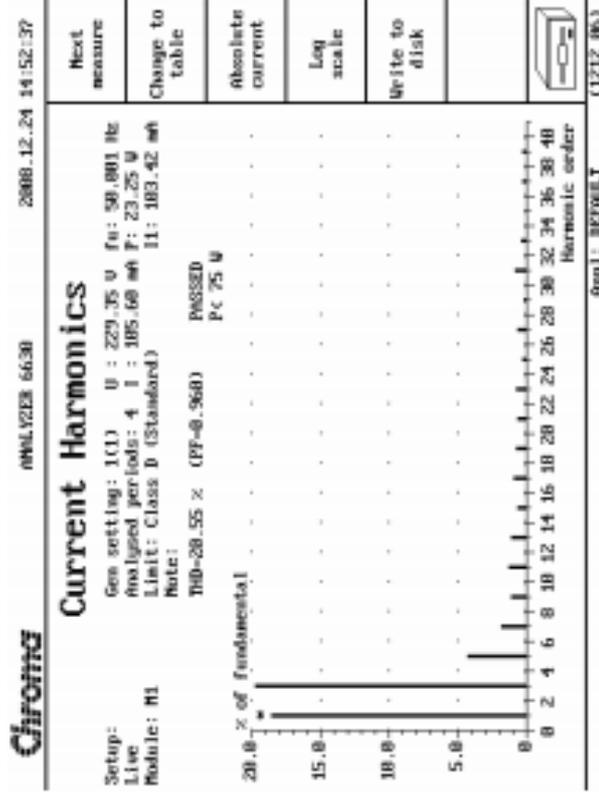
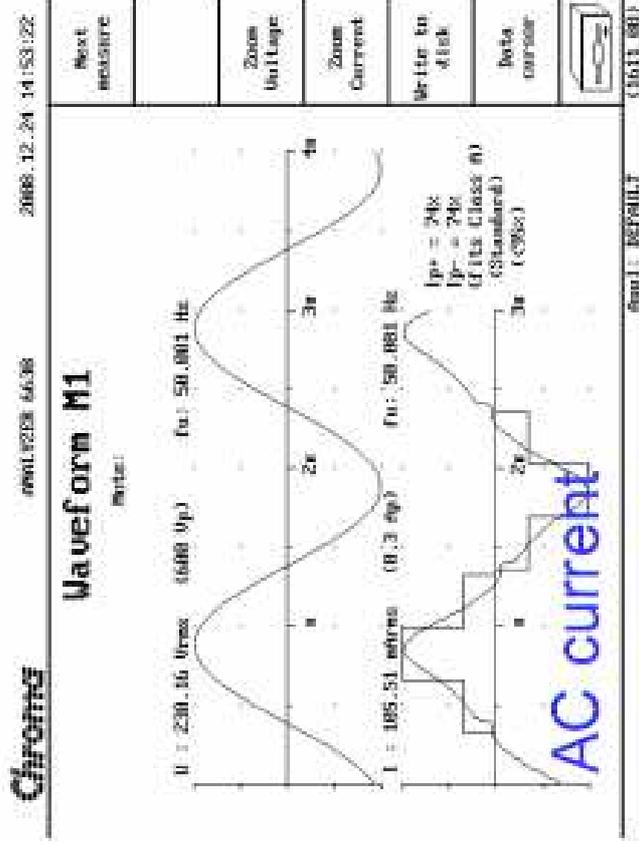
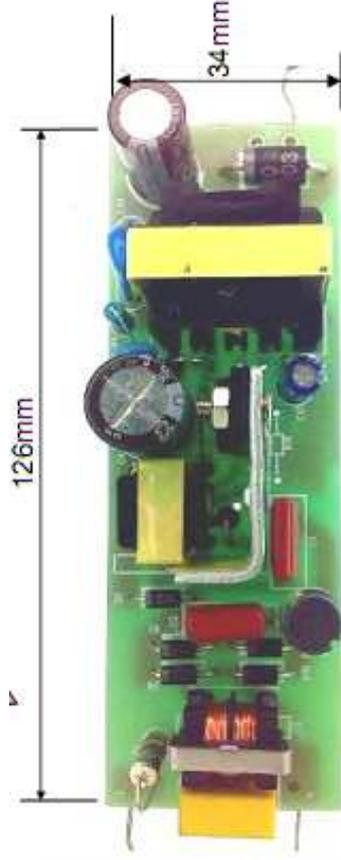
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PGET0925: LED Driver 7X3W

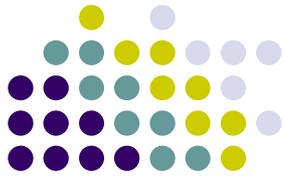
Input: 90V-264V; Output: 24V, CC@ 700mA

EE2520 transformer, CC tolerance +/-5%
Efficiency 84%; Isolated ; meet EMI



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PGET0926: LED Driver 12W

Input: 90V-264V; Output: 22V, CC@ 550mA

**EE1916 transformer, CC tolerance +/-5%
Efficiency 84%; Isolated ; meet EMI**



PGET0927: LED Driver 10W

Input: 90V-264V; Output: 35V, CC@ 350mA

**EPC17 transformer, CC tolerance +/-5%
Efficiency 84%; Isolated ; meet EMI**



PGET0928: LED Driver 10W

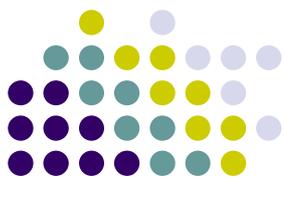
Input: 90V-264V; Output: 40V, CC@ 250mA

**2*EFD15 transformer, CC tolerance +/-5%
Efficiency 84%; Isolated ; meet EMI**



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Regulation for LED_PF & Harmonic current

| | | | | |
|---|-------|------------------|-----|---|
| A | LED 燈 | 被動式或電子式安定器(或變壓器) | 有或無 | <p>≥ 25W, IEC 61000-3-2, 表 3.4.2. Class C</p> <p>≤ 25W 無限制值要求</p> |
|---|-------|------------------|-----|---|

B IEC61000-3-2

7.3 Limits for Class C equipment

7.3.1 Lighting equipment

a) Active input power >25 W

For lighting equipment having an active input power >25 W, the harmonic currents shall not exceed the relative limits given in table 2.

b) Active input power ≤25 W

Lighting equipment having an active input power ≤25 W shall comply with one of the following two sets of requirements:

1) the harmonic currents shall not exceed the power-related limits of table 3, column 2;

NOTE The lower limit of 75 W or 50 W for the application of Class D (see 7.4) is not valid in this case.

2) the third harmonic current, expressed as a percentage of the fundamental current, shall not exceed 86 % and the fifth shall not exceed 61 %; moreover, the waveform of the input current shall be such that it begins to flow before or at 60°, has its last peak (if there are several peaks per half period) before or at 65° and does not stop flowing before 90°, where the zero crossing of the fundamental supply voltage is assumed to be at 0°.

C The magnitude of the input current harmonic is normalized to the fundamental input current component with a 120V source voltage since it has the highest magnitude.

The overall input harmonic current magnitudes of the 120V input voltage is approximately 1.92 times bigger than one with 230V

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Regulation _Insulation and Electric strength test spec._IEC60968

7 Insulation resistance and electric strength after humidity treatment

Insulation resistance and electric strength shall be adequate between current-carrying metal parts of the lamp and accessible parts of the lamp.

7.1 Insulation resistance

The lamp shall be conditioned for 48 h in a cabinet containing air with a relative humidity between 91 % and 95 %. The temperature of the air is maintained within 1 °C of any convenient value between 20 °C and 30 °C.

Insulation resistance shall be measured in the humidity cabinet with a d.c. voltage of approximately 500 V, 1 min after application of the voltage. The insulation resistance between current-carrying metal parts of the cap and accessible parts of the lamp (accessible parts of insulating material are covered with metal foil) shall be not less than 4 M Ω .

NOTE The insulation resistance of bayonet caps between shell and contacts is under consideration.

7.2 Electric strength

Immediately after the insulation resistance test, the same parts as specified above shall withstand a voltage test for 1 min with an a.c. voltage as follows:

– ES caps: between accessible parts and parts of screw caps (accessible parts of insulating material are covered with metal foil):

- type HV (220 V to 250 V): 4 000 V r.m.s.
- type BV (100 V to 120 V): $2U + 1\ 000\ V$

Value U = rated voltage.

During the test the eyelet and the shell of the cap are short-circuited.

Initially no more than half the prescribed voltage is applied. It is then gradually raised to the full value.

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Regulation for LED_EMC Standard _according to ballast

各國對電子式安定器之電磁相容性(EMC)測試規定比較

| 國家 | 驗證制度 | 黏貼標誌 | 法規標準 |
|----|------------|---|--|
| 歐盟 | 符合性宣告 |  | EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-2 |
| 美國 | 符合性宣告或型式驗證 |  | 無列入管制範圍 但需做符合性宣告及測試 |
| 台灣 | 驗證登錄 |  | CNS 14115 (限檢驗一般室內照明燈具類) |
| 日本 | 符合性宣告或型式驗證 |  | J55001(H14) |
| 大陸 | 驗證登錄 |  | GB-17743 GB-18595 |

FCC part18

CISPR 15 照明設備之電磁干擾限制值與量測方法

IEC 61547 照明設備之電磁耐受性要求標準

IEC 61000-3-2 每相額定電流在16A 以下且連接於電源公共網路系統中諧波干擾限制及量測方法

IEC 61000-3-3 每相額定電流在16A 以下且連接於電源公共網路系統中電壓改變、電源變動及閃爍干擾限制

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Regulation for LED_EMS

照明設備電磁耐受性(EMS)測試要求

| 照明設備電磁耐受性(EMS)測試要求 | | | | | | | |
|--------------------|------------------------------|---|---|--|---|-----------------------------------|--|
| 照明產品 | 靜電放電 (ESD) | 輻射耐受 (RS) | 電子快速暫態 (EFT) | 雷擊耐受 (Surge) | 傳導耐受 (CS) | 電源頻率磁場 (PFMF) | 電壓降及瞬間變動 (DIP) |
| 基本標準 | IEC 61000-4-2 | IEC 61000-4-3 | IEC 61000-4-4 | IEC 61000-4-5 | IEC 61000-4-6 | IEC 61000-4-8 | IEC 61000-4-11 |
| 測試要求 | 1) ±8kV 空間放電 2) ±4kV 接觸放電 | 1) 頻率 80-1000MHz 2) 場強 3V/m, 3) 振幅 1kHz, 80% AM 正弦 | 1) 電壓±0.5kV 對控制線、信號線及直 流輸入和輸出埠 2) 電壓±1kV 對交流輸入及輸出埠 3) Tr/Td 5ns/50ns 4) 重複頻率 5kHz | 1) Tr/Td 1.2/50 μs (8/20μs), 2) 小於 25W 線對線 0.5kV 線對地 1.0kV 3) 大於 25W 線對線 1kV 線對地 2kV | 1) 頻率 0.15-80MHz, 2) 場強 3Vrms, 3) 振幅 1kHz, 80% AM, 正弦 4) 信號源阻抗 150Ω | 1) 電源頻率 50/60Hz, 2) 磁場 3A/m 連續 | 1) 電壓瞬降 30%-10cyc 2) 電壓中斷 100%-0.5cyc |

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