

LED Power Supply

Constant Current Driver Series

- Long lasting and high reliability,
- Extra small compact housing,
- Suitable for use with downlights,
- Spotlights, and other indoor LED applications



Safety and EMC standard

Safety according to

- EN 61347-1, 61347-2-13, 62493
- RI suppression according to EN 55015/CDN
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547

Approval marks



Item	Value Unit Remark
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1. Input

Nominal voltage	220 – 240 VAC
Nominal frequency	50 - 60 Hz
AC voltage range	200 – 264 VAC Permitted voltage range
DC voltage range	NA V
Maximum voltage	264 V
Nominal current	170mA 230V @ 30w load
Total Harmonic Distortion (THD)	<20 % Full load, 230 V, 50 Hz
Power factor	0.9 Full load, 230 V, 50 Hz
Efficiency	>88 % Full load, 230 V, 50 Hz, typical
No-load power	< 0.7 W 230V, typical
Stand-by power	NA W
Power loss	4 W at 230V input @ 30W load max.
Input power	30 W at 230V input @ 30W load max.
Protection class	II
Inrush current	< 30 A twidth = 100 µs typical (measured at 50% Ipeak)

2. Output

Nominal voltage range	25-42VDC
Maximum voltage	50 VDC Open circuit
Nominal current range	700 mA
Current accuracy	+/- 5 %
Current ripple	10 % typical
Nominal power range	17.5-30 W Partial Load.
Maximum power	30 W Ta ≤50°C,
Safety isolation	SELV-equivalent 3,000 kVrms . Touch current < 0.7 mA
Flicker	Flicker free
Dimming	Switch Dimmable (100%-50%-20%)

3. Environment

Ambient temperature range t_a	-20 ... +50 °C
Maximum case temperature t_c	85 °C Measured on t_c point indicated of the product label.
Max. Case temp. in fault condition	110 °C
Storage temperature range	-25 ... +75 °C Cool down before operating
Relative humidity	5 ... 80 % Not condensing
Surge transient protection	1 1 kV L/N LN/PE acc. IEC 61000-3-2 (ANSI C62.41 Cat.A ...)
Environmental rating	Indoor
IP rating	IP 20
Mains switching cycles	> 100'000
Expected lifetime	30'000 hrs $t_a = 45^\circ\text{C}$, $t_c = 85^\circ\text{C}$, 10% failure rate
	50'000 hrs $t_a = 35^\circ\text{C}$, $t_c = 75^\circ\text{C}$, 10% failure rate

4. Switch function (option#1)

1. switch on --> 100% brightness;
 2. switch off and then switch on within 3s --> 50%brightness;
 3. switch off and then switch on within 3s --> 10%brightness;
 ***switch on after 5s, the chosen brightness is fixed;
 ***no memory function, if LED switch off for more than 5s, the brightness is 100% brightness when switch on.

5. Switch function (option#2)

Dimming operation of Option 2:
 1. switch on --> 100% brightness;
 2. switch off and then switch on within 3s --> 50%brightness;
 3. switch off and then switch on within 3s --> 20%brightness;
 ***switch on after 5s, the chosen brightness is fixed;
 ***has memory function, if LED switch off for more than 5s, the brightness is fixed brightness when switch on .
 ***switch on/off 5times, reset successful.

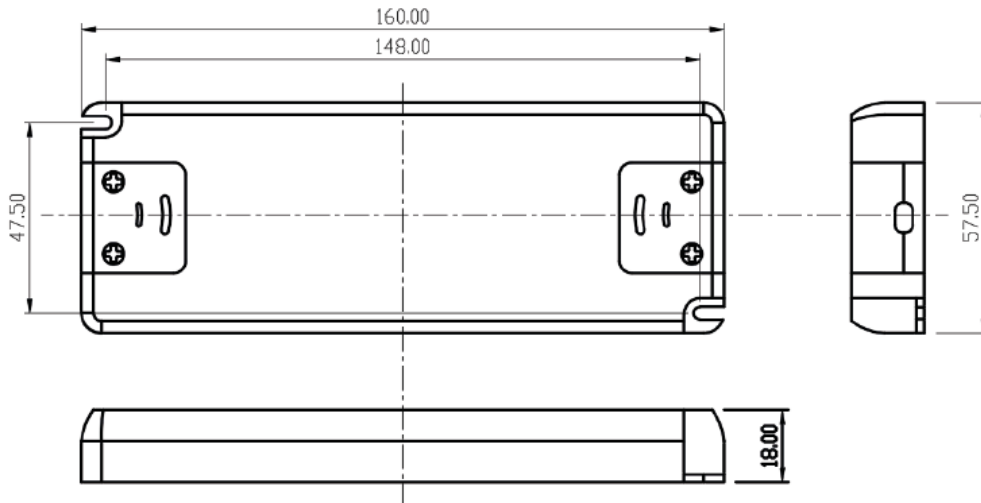
6. Protection

Overheating protection	yes, automatic reversible
Overload protection	yes, automatic reversible
Short-circuit protection	yes, automatic reversible
Hot plug-in protection	No, Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

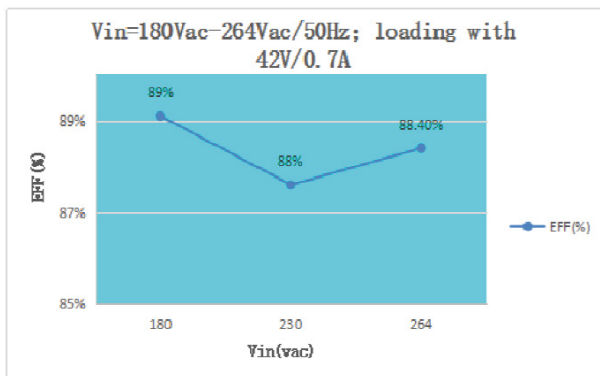
7. Dimensions | Weight

Dimensions	160 x 57.5 x 18
Weight	125g
Max. cable length	1.2m
Cable crosssection, input side	0.5...1.5 mm ²
Cable crosssection, output side	0.2...1.5 mm ²

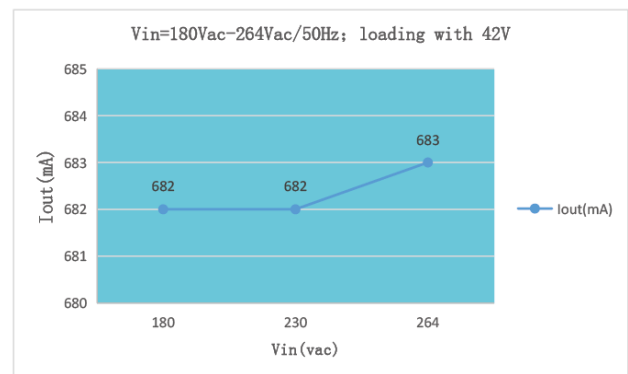
Dimensions



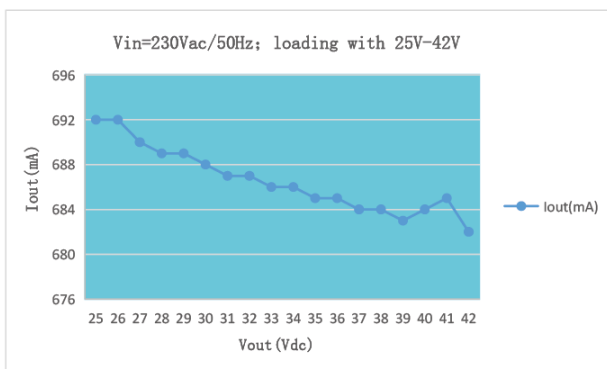
Variable Input Vs Efficiency



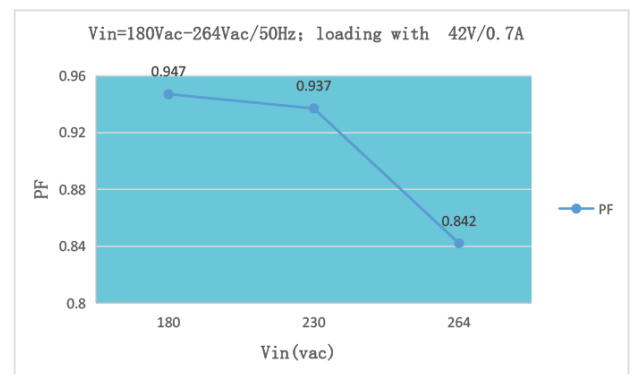
Variable Input Vs Iout Measurement



Variable output Vs Iout Measurement



Variable Input Vs PF Measurement



Disclaimer

The information in this data sheet subject to change without notice.

Always make sure to use the most recent release, or consult with us before your final selection.