



APPROVAL

SHEET

FOR

AC-DC LED DRIVER

MODEL NO.

DSA-36PFA-40

Stontronics Ltd

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0. REVISION CONTROL LIST

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DATE	REVISION CONTROL ITEMS					
	CONTENT OF APPROVAL SHEET	SPECIFICATION	RATING LABEL DRAWING	DC OUTPUT CORD DRAWING	PRODUCT OUTLINE DRAWING	PACKING DRAWING
2011.01.20	A	A	A	A	A	A

REVISION CHANGE DESCRIPTION

ITME	REV	DESCRIPTION

1. SPECIFICATION

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0. REVISION CHANGE DESCRIPTION

Revision	Description	Date
A	Initial release	2011.01.20
B	Revise N/P	2011-7-21

1. GENERAL DESCRIPTION

This specification defines the input, output, performance characteristics, environment, noise and safety requirements for a 38.4 watts switching type LED Driver

The LED Driver is full range AC input with +40V DC constant voltage output and floating +27~+40V DC output with 960mA constant current output.

2. INPUT REQUIREMENT

2-1 AC INPUT VOLTAGE

MINIMUM	NOMINAL	MAXIMUM
90VAC	100-240 VAC	264 VAC

2-2 AC INPUT FREQUENCY

MINIMUM	NOMINAL	MAXIMUM
47 Hz	50 / 60 Hz	63 Hz

2-3 AC INPUT CURRENT

115 VAC INPUT	0.5 A maximum
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2-4 AC INRUSH CURRENT

AT FULL LOAD, 25 DEGREE C, COLD START

115 VAC, 60Hz INPUT	No damage shall be occurred and the input fuse shall not be blown up.
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2-5 PRIMARY CURRENT PROTECTION

An adequate internal fuse on the AC input line is provided.

2-6 POWER CONSUMPTION ON POWER SAVING MODE

LOAD	INPUT CONDITION	INPUT POWER REQUIREMENT
0 A	115 VAC 50/60 Hz	3W maximum
0A	230 VAC 50/60 Hz	3W maximum

1.SPECIFICATION

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3.OUTPUT REQUIREMENT

3-1	CONSTANT VOLTAGE	+40±5%
3-2	FLOATING OUTPUT VOLTAGE	+27~+40 V
3-3	MINIMUM LOAD CURRENT	0 A
3-4	RATED LOAD CURRENT	0.96A
3-5	RATED OUTPUT POWER	38.4W
3-6	TOTAL OUTPUT REGULATION	±5%
3-7	CONSTANT CURRENT	0.96A ±5%
3-8	RIPPLE AND NOISE	3600mVp-p maximum At 20 MHz, and output parallel with 0.1uF & 10uF capacitors to ground Temperature at 25℃, and 115VAC input voltage
3-9	EFFICIENCY	85% minimum Full load ERP :2009/125/EC
3-10	POWER FACTOR	0.9 minimum At nominal input voltage and full load
3-11	PROTECTION	
	SHORT-CIRCUIT PROTECTION	The adapter shall not be damaged by short the DC output to Ground.
	OPEN CIRCUIT PROTECTION	When primary power is applied with no load on any output level, no components of damaged or hazardous conditions should be occurred.
3-12	REMARK	Unless otherwise specification output load Must set at CR mode.

4. MECHANICAL REQUIREMENT

4-1 DIMENSION

170 (L) * 46 (W) * 31 (H) mm maximum

4-2 WEIGHT

280 g maximum

4-3 INPUT CONNECTOR TYPE

3PIN: 22-16 SOLAWG

4-4 OUTPUT CONNECTOR TYPE

4PIN: 22-16 SOLAWG

1.SPECIFICATION

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5. ENVIRONMENTAL REQUIREMENT

5-1 COOLING

Cooling shall be with natural convection cooling

5-2 OPERATING TEMPERATURE

0 °C TO 40 °C

5-3 STORAGE TEMPERATURE

-20 °C TO +60 °C

5-4 OPERATING HUMIDITY

20 ~ 85 % RH. NON-CONDENSING

5-5 STORAGE HUMIDITY

5 ~ 95 % RH. NON-CONDENSING

6. SAFETY REQUIREMENT

6-1 DIELECTRIC WITHSTANDING VOLTAGE TEST (HI-POT TEST)

Primary To Secondary: 3000VAC 10mA 1minute or 4242VDC 10mA 1minute

6-2 LEAKAGE CURRENT

0.25mA maximum, at nominal AC input voltage and frequency

6-3 SAFETY STANDARD

Designed to meet

6-4 EMI STANDARD

Designed to meet

1.SPECIFICATION

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7. RELIABILITY

7-1 MEAN TIME BETWEEN FAILURE (MTBF)

The power supply shall be designed and produced to have a mean time between failures (MTBF) of 50000 operating hours minimum conditions: 100% maximum load at 25°C, nominal input voltage.

Standard: MIL-HDBK-217F

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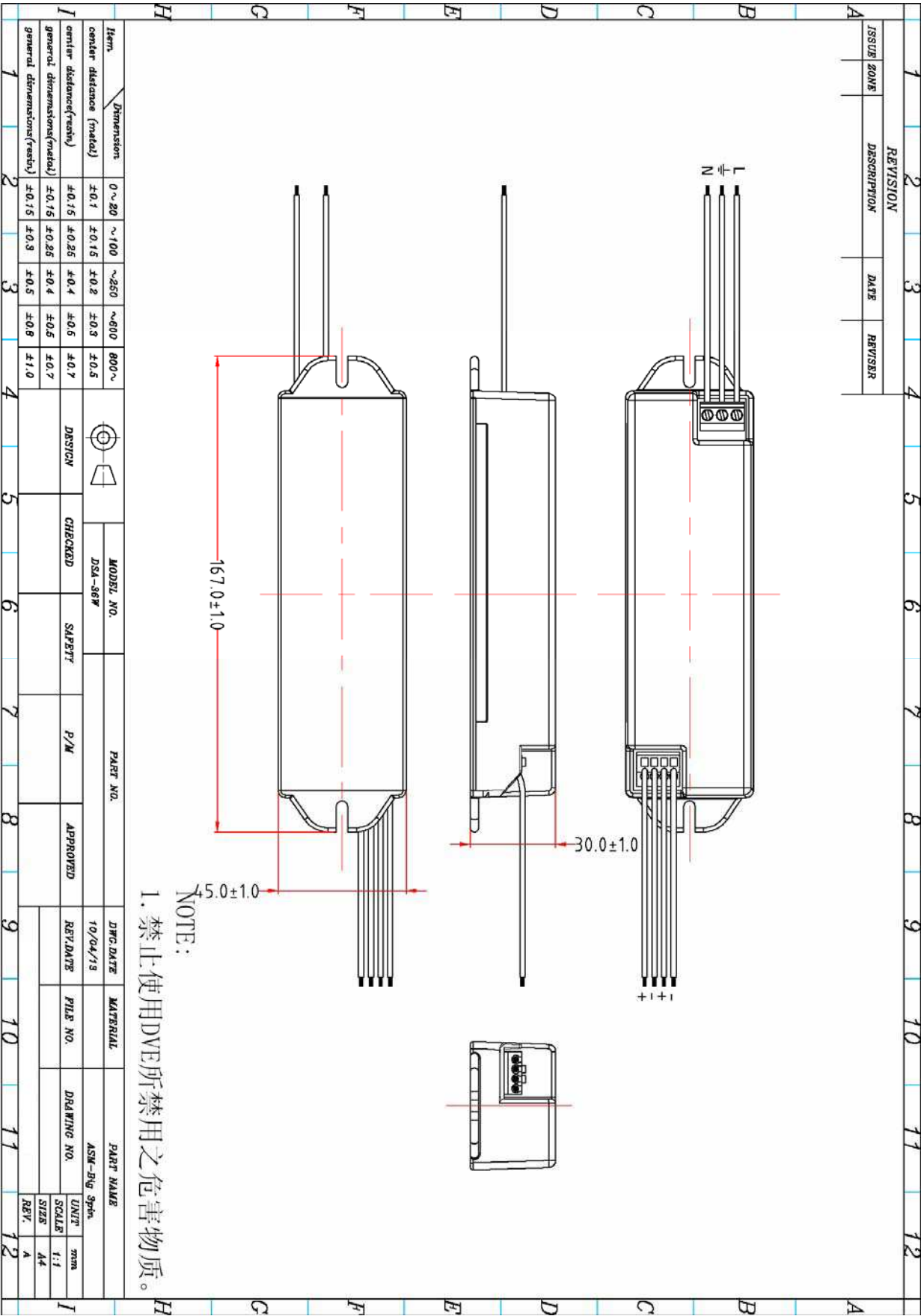
FM-336(V0)

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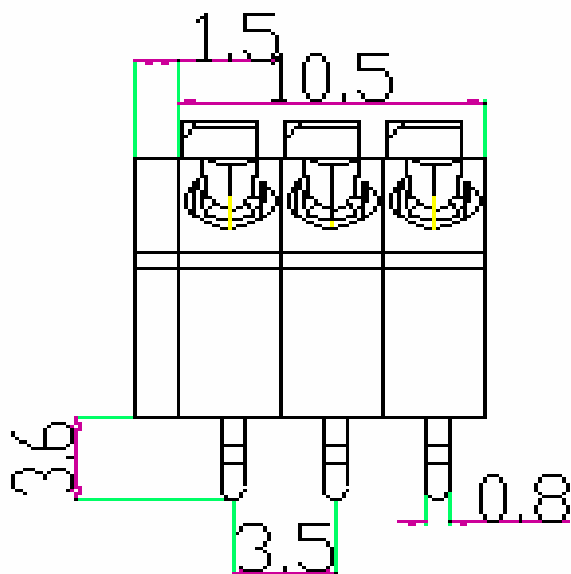
3.PRODUCT OUTLINE DRAWING

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4. INPUT CONNECTOR DRAWING

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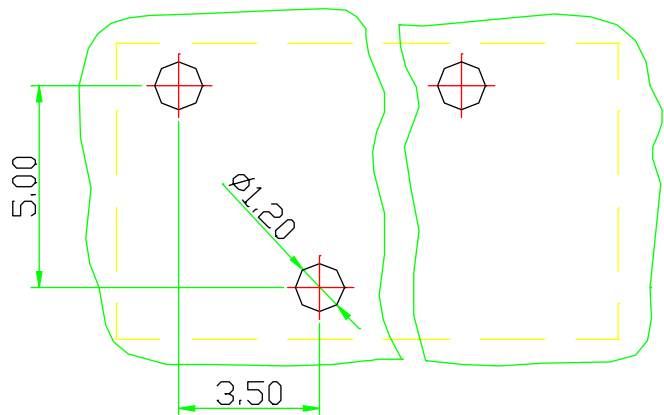
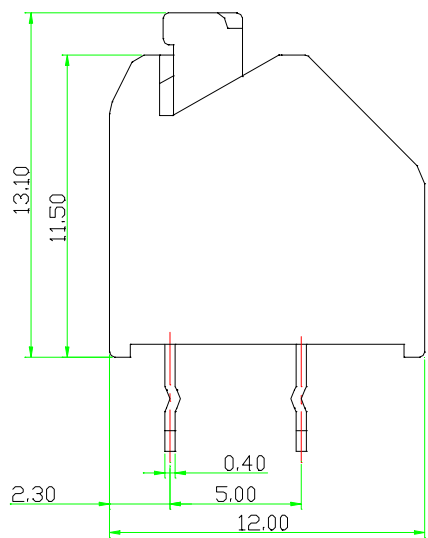


NOTE:

RATED: 22-16AWG

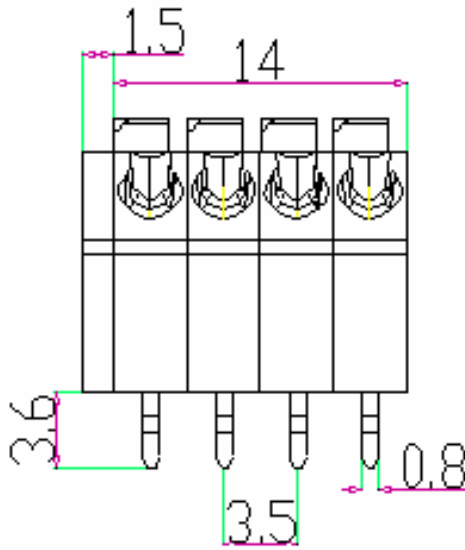
ELECTRICAL: 300V 8A

COLOR: ORANGE



5. OUTPUT CONNECTOR DRAWING

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NOTE:

RATED: 22-16AWG

ELECTRICAL: 300V 8A

COLOR: GRAY

