adt	MODEL NO.	ADT6512	SHEET NO	QB20130455
	DESCRIPTION	Car Charger	ISSUED DATE:	2013/09/02

APPROVAL SHEET

APPROVAL SIGNATURE
DATE:

Customer：

Model No：ADT6512

Type ：Car Charger

Input Voltage	11V---16VDC or 22V---24VDC	Output Voltage	12V DC 5.0 A 60W
Output Cable	UL1185 16AWG L=1200mm Plug:5.5X2.5X9.5mm 180 度		
DC IN NET	點菸器插頭	Packaging	氣泡袋

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CONTENT:

1. INTRODUCTION

This document defines the specifications for the 60 watts DC to DC adapter named ADT6512 .
The device shall accept DC input from either an Car mobile/RV Cigarette or Air Plug.

A working indicator LED will display green when the output voltage is ON. The input plug shall mate with all common vehicle lighter sockets.

2. ELECTRONICS SPECIFICATION

Parameter	Specification
Input Operation voltage	11V---16VDC and 22V---32VDC for operation voltage(After turn on) Turn on voltage must be over 11.5VDC.
Maximum input current	7A
Inrush current	No damage the relative components
Output voltage	12VDC+/-5%
Output current (Max.)	5A
Dynamic load Load 1: 0A --- 2.5A Load 2: 2.5A -- 5.0A	Output voltage range: 12VDC +/-10%
Maximum rated output power	60W continuous
Maximum output voltage ripple & noise	200mVpk
Input under-voltage protection	Shutdown if input voltage is below 10.5VDC with auto recovery mode
Over current protection	Shutdown if output load exceed 110%~150% of Max. load, with latch mode
Output over voltage protection	18V maximum, shut down with latch mode if output OVP is triggered.
Over temperature protection	Shutdown with auto recovery mode if internal temperature is higher than 120℃ when abnormal condition occurred
Efficiency	80% minimum.

3.0 ENVIRONMENTAL

3-1. Operating Temperature

0℃ to +40℃

3-2. Storage Temperature

-20℃ to 85℃

3-3. Shock

Operational: 10G, 1/2 sine pulse, 11-millisecond duration, 3 drops each direction and axis

Non-operational: 60G, 1/2 sine pulse, 11-millisecond duration, 3 drops each direction and axis

3-4. Vibration

Operational: 5 to 500Hz @ 0.5G acceleration for 30 minutes in each axis

Non-operational: 5 to 500Hz @ 1G acceleration for 1 hour in each axis

3-5. Electrostatic Discharge Sensitivity

No hardware failure up to ± 8KV. The test procedure should be according to IEC801-2(1991).

3-6. Burn In

4 hours at 40℃(+/-5℃), nominal input voltage(24V), and 80% load condition.

3-7. MTBF

50,000 hours minimum.

4.0 INTERNATIONAL STANDARD

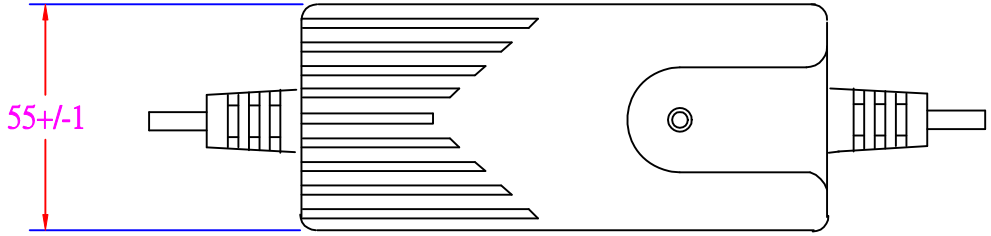
4.1 Safety Standard

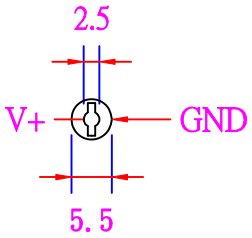
TBD

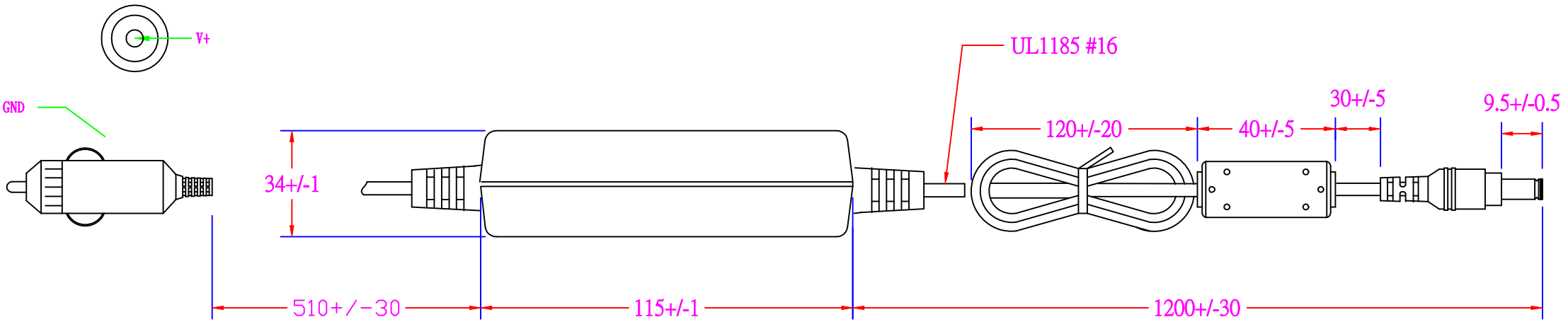
5.0 MECHANICAL

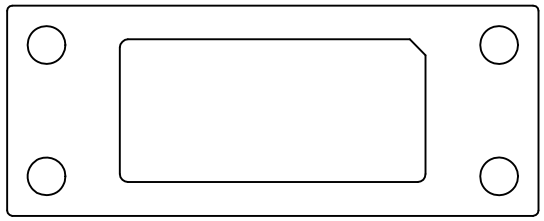
5-1. Case Dimensions

L115 x W55 x H34 mm

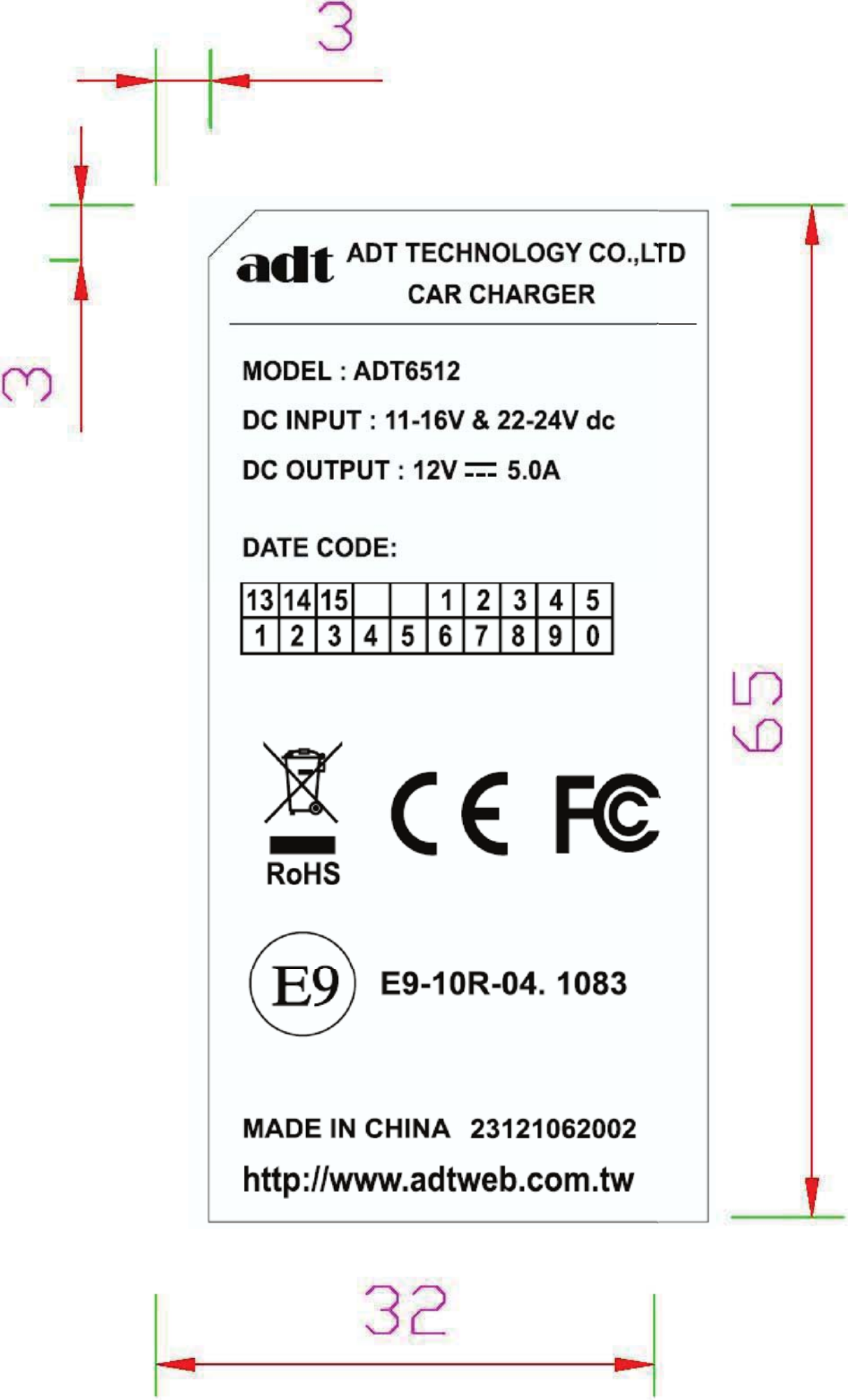








MODEL	ED1062(08)	UNIT		APPROVED
DESCRIP	OUTLINE	SCALE		DESIGNED
NAME	CAR ADAPTER	DATE	2012/11/27	CHECK
CUSTOMER		CUS. P/N		DRAWING L. J. YU



EDAC P/N.: 312
Background: Black color
Character: Silver color
Unit: mm