



GCV9021

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1.0 SCOPE

This document describes the basic electrical characteristics and mechanical requirements of Model No.DU9080 Plug-in Saver Charger

2.0 ELECTRICAL SPECIFICATION

2.1 INPUT REQUIREMENT

2.1.1 Input voltage range

The Retractable Plug-in Saver Charger shall operate within specification from DC12 to 24 V

The table below shows common input voltage ranges.

Input range	Minimum	Minimum Nom	Nom	Maximum Nom	Maximum	Unit
	10	12	12/24	24	26	Vrms

Table 1 Input voltage range

2.1.2 Input current

The maximum steady state input current shall not exceed 1 A for any line voltage

Specified in 2.1.1.

2.1.3 Input protection

2.1.3.1 Input current protection

A fuse with a rating of 1 A / 250V shall be installed on the input line side near

The input connector to provided protection to the Retractable Plug-in Saver Charger

3.0 OUTPUT REQUIREMENT

3.1 Startic load :

OUTPUT#	Voltage	Minimum load	Maximum load	Peak load
1	+5.2V	0A	800mA	

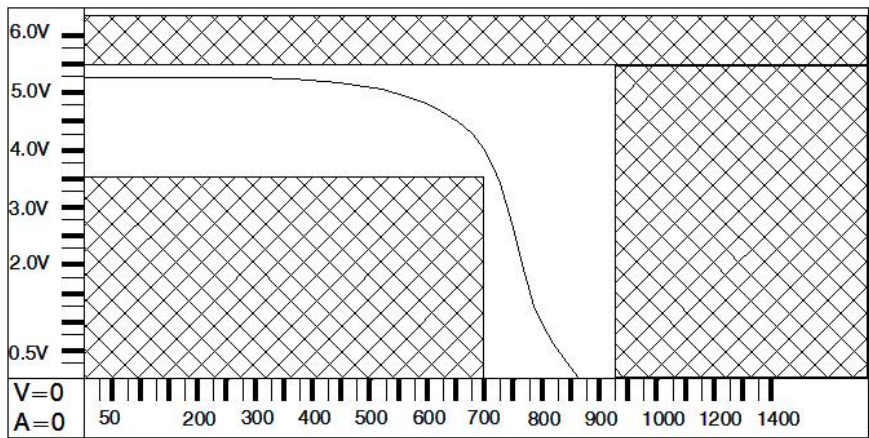
Table 3.1.1

3.2 Output voltage

The output voltage shall be statically regulated all combinations of Load, line and environment ncluding cross regulation as shown.

Output#	Voltage/current	Range	Tolerance
CV mode	+5.2V	4.9V – 6.5V	+/- 0.3V
CC mode	800mA	700 – 900mA	+100mA / - 100mA

Table 3.1.2



V-I CHARACTERISTIC

3.3 Ripple and noise

Output #	Voltage	Maximum peak to peak ripple / noise
1	+5.2V	0.5V p-p

Table 3.1.3

Measuring is done by 20MHz bandwidth oscilloscope and terminated each output with a 10uF capacitor and a 0.1uF capacitor

4.0 ENVIRONMENTAL SPECIFICATION

4.1 Temperature

Operating : 0 to 40 degrees C

Non-operating : -20 to 75 degrees C

4.2 Humidity

10% to 85% relative humidity, non-condensing during operating temperature

5% to 95% relative humidity, including condensation during non-operating temperature.

5.0 ELECTROMAGNETIC SUSCEPTIBILITY

5.1 Electrostatic discharge

The Retractable Plug-in Saver Charger shall withstand the following ESD conditions at any point on the Retractable Plug-in Saver Charger enclosure when tested as following condition.

A) Air discharge +/-8 kV

B) Contact discharge +/-4 kV

6.0 AGENCY APPROVALS

6.1 PRODUCT SAFETY REQUIREMENTS AND APPROVALS

Safety agency	Certification	Meet
CE E mark		EN55022 Class B EN61000-4-2 EN61000-4-3 EN55022,EN50082-1 EN60555-2

7.0 MECHANICAL SPECIFICATION

7.1 Enclosure drawing :

Enclosure drawing with physical dimension shall specified in figure 1.

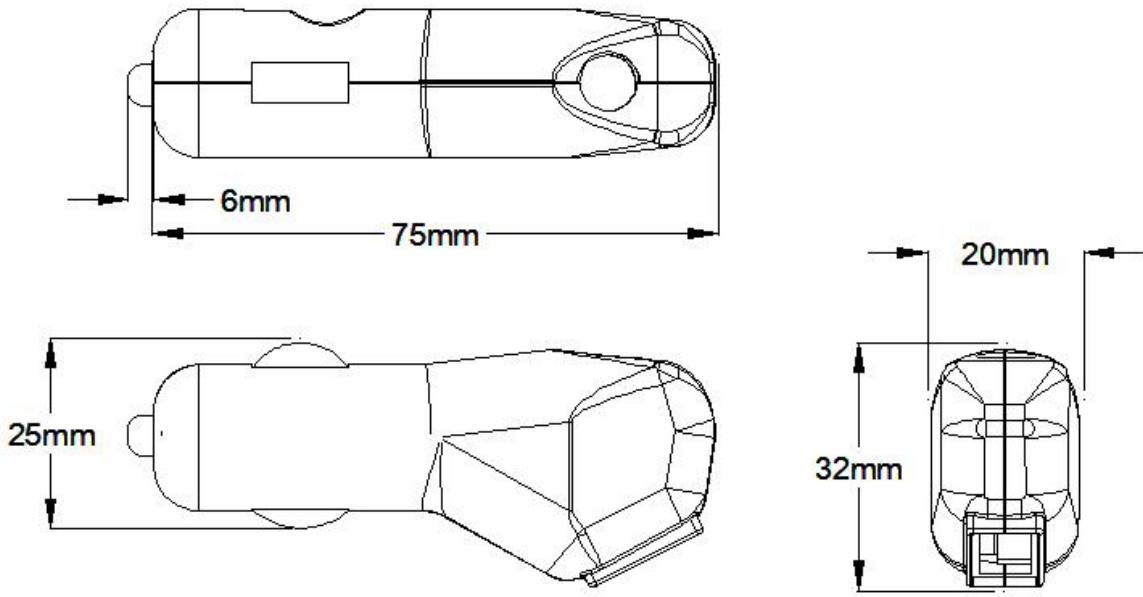


figure 1.

7.2 Output connector

7.2.1 Output cable :

Length : ____mm+ ____mm

Color : ____

7.2.2 Output plug

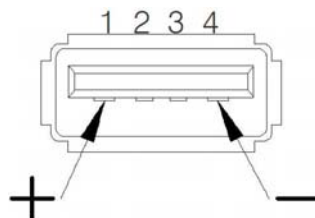
Barrel Plug : USB.

7.2.3 Pin out configuration

Location #	Output level
1	+5.2V
2	+2.80V
3	2.40V
4	RTN

Table 4 Pin out configuration

Side view of output connector



8.0 LABEL DRAWING

Label draeing shall be as specified in figure 2.

8.2 Weight :

The weigh of the power supply is about 17.9 g

9.0 PACKING

Packing unit shall be kg or less in weight including packing materials.

TEST REPORT

SAMPLE No	1	2	3		SPEC
Test condition					
Input voltage					12 – 24 V
No-load (V)					5.0 – 5.5V
Load 5R (V)					4.5 – 5.0V
Ripple (mV)					≤ 0.5V
Load 10R (V)					4.8 – 5.5 V
Io at Vo= 4.0 V (mA)					< 800mA
Io at Vo=0V (mA)					< 1.3A
Output power (W)					≤ 5 W
Efficiency (%)					≥ 65 %
Quiescent current (mA)					< 50mA

