

## Electric Horns for Automobiles

JIS D 5701-1982



The durability test of the automotive horn continuously measures 4 seconds when ON is 1 s and OFF is 4 s.

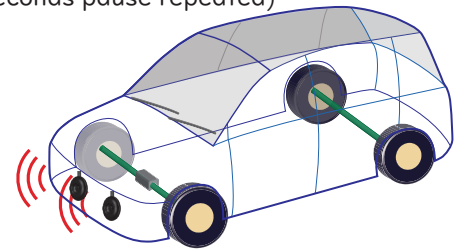
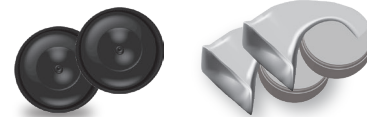
You can easily test by using the TEST Script function of PFR, PSW, PSU series for the durability test of an automobile horn.

The Test Script function can simplify the parameter input for the sequential power output by filling out a CSV file ( using a spreadsheet such as Microsoft® Excel® ) with the time, voltage, current and cycle count; and then saves an edited file into USB flash memory and uploads to the power supply and executes.

External control equipment such as PC is not necessary.

In addition, if you use the external trigger function, you can start the test by turning on the contact switch.

Item	Test Conditions
Number of beeps	Mainly for motorcycles 30 000 times
	Mainly for automobiles 50 000 times
Continuing ringing cycle	12 times / minute (one second beep and four seconds pause repeated)
Terminal voltage.	6.5 ± 0.2 V for nominal voltage 6 V.
	3.0 ± 0.2 V for nominal voltage 12 V.
	26.0 ± 0.2 V for nominal voltage 24 V.



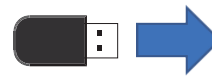
### Example : Test script



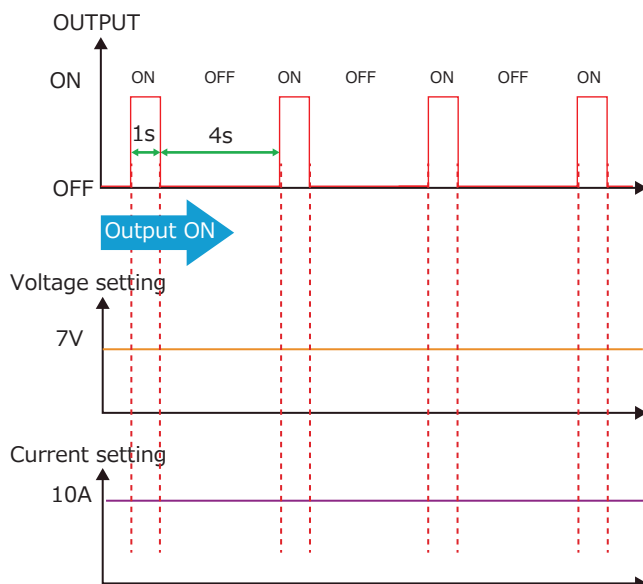
#### Test Script (CSV File)

	A	B	C	D	E	F
1	memo	Hone test				
2	DisplayItem	VI				
3	CycleItems	Number	Start Step	End step		
4	Cycle	50000	2	3		
5	Step	Point	Output	Time(sec)	Voltage(V)	Current(A)
6		1	Start	Off	0.5	0
7		2		On	1	13
8		3		Off	4	13
9		4	End	Off	0.5	0
10						

Voltage : 13.0V  
Current : 4.0A  
Cycle : 50,000



### Pattern : Durability test

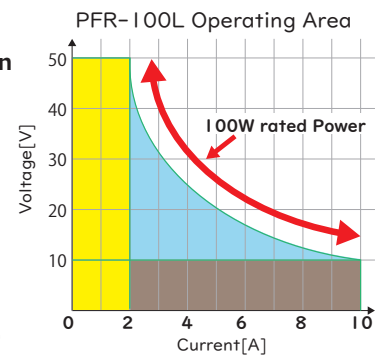
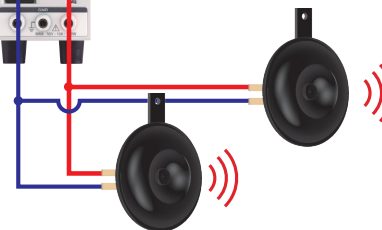


#### 5 Times Multi-range(V&I) Operation

100W = 6V, 16.6A  
100W = 13V, 7.69A  
100W = 24V, 3.8A



Natural Convection Cooling Design (Fanless Structure)



Sound Level Meter