



**EMBUILT
TECHNOLOGIES**

CEHA-1

Charger Efficiency & Harmonic Analyser



भारत में निर्मित
MADE IN INDIA



PENDRIVE
UPTO
32GB



FEATURES

- AC Parameters : V, A, W, PF, Hz**
- DC Parameters : V, A, W, Eff.**
- V/A THD Voltage and Current THD**
- External Shunt Connect for Higher Amps**
- Real Time Clock For Data Logging**
- Big LED Display for clear view**
- Harmonics : Up to 55th Order**
- Data Logging with Charger Testing**
- SR. ↑ Automatic Increase Serial Number**
- ✓ X Pass / Fail facility for saved 25 models**
- Log on connect in Pendrive**
- Software Interfacing Facility**
- Internal onboard memory upto 32000 tests**
- Software Compatible with Barcode Scanner**



COMPREHENSIVE TESTING OF ELECTRIC VEHICLE CHARGER



Charger (Low Amps)

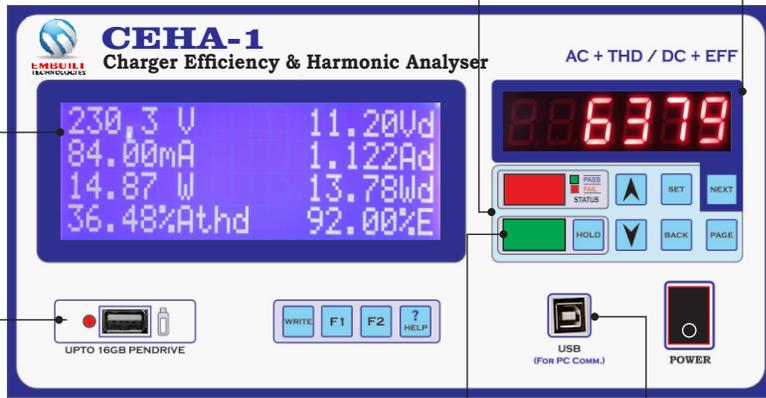


Charger (Vehicle)



Charger (Charging Station)

● LCD Display to show all AC and DC Electrical Parameters with THD and efficiency



● Tab for PASS/FAIL Status

● Large LED Display for Important Parameters:

Voltage
Current
Power
PF
VTHD
ATHD
DC Voltage
DC Current
DC Power
Efficiency
SERIAL NO.

U
A
P
PF
Vt
At
Vd
Ad
Pd
EFF
S, No

● Pen Drive upto 16GB For Data logging and Log On Connect

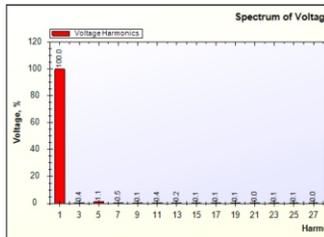
● Tab for Hold the Parameters (In R&D Mode)

● Optically isolated USB for software interfacing



HARMONICS REPORT

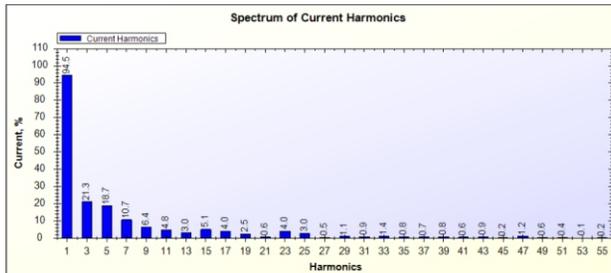
Voltage Harmonic Spectrum



Harmonics Spectrum Table

Harmonic Order	Voltage (mV)	% VTHD	Amp. THD	Amp. THD (%)
1	243.60 V	0.13 A	0.13 A	94.68 %
3	1.97 V	0.81 %	49.89 mA	33.35 %
5	2.75 V	1.13 %	43.88 mA	38.74 %
7	1.11 V	0.47 %	25.08 mA	19.75 %
9	0.96 V	0.39 %	19.88 mA	14.86 %
11	0.92 V	0.38 %	13.12 mA	4.75 %
13	0.38 V	0.16 %	7.33 mA	2.85 %
15	0.23 V	0.09 %	11.84 mA	5.09 %
17	0.17 V	0.07 %	0.45 mA	0.54 %
19	0.21 V	0.10 %	1.82 mA	2.49 %
21	0.13 V	0.06 %	1.68 mA	0.65 %
23	0.13 V	0.06 %	0.31 mA	0.98 %
25	0.13 V	0.06 %	0.99 mA	2.98 %
27	89.14 mV	0.04 %	1.24 mA	0.93 %
29	49.98 mV	0.02 %	1.46 mA	1.11 %
31	43.83 mV	0.02 %	2.02 mA	1.82 %
33	53.92 mV	0.03 %	3.03 mA	1.98 %
35	64.73 mV	0.03 %	1.81 mA	0.78 %
37	71.89 mV	0.03 %	1.68 mA	0.75 %
39	2.14 V	0.98 %	1.18 mA	0.94 %
41	0.14 V	0.06 %	1.19 mA	0.99 %
43	15.89 mV	0.02 %	2.14 mA	0.91 %
45	69.15 mV	0.03 %	1.18 mA	0.98 %
47	0.11 V	0.04 %	2.71 mA	1.16 %
49	49.88 mV	0.02 %	1.92 mA	0.95 %
51	53.92 mV	0.03 %	0.98 mA	0.85 %
53	53.49 mV	0.02 %	0.74 mA	0.59 %
55	71.89 mV	0.03 %	0.11 mA	0.22 %

Current Harmonic Spectrum



PDF REPORT GENERATION

Features:

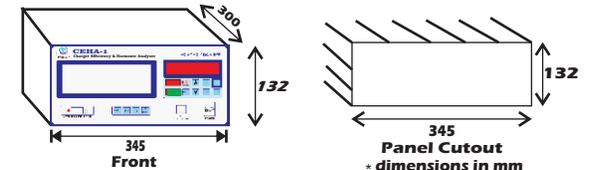
- Report Generation
- Data Logger
- Online Graphing
- Real Time View

TECHNICAL SPECIFICATION

Auxiliary Power	180 - 250 V, 50 Hz
AC Input Voltage	5.0 - 500 V, 45 - 55 Hz (45 - 65 Hz, 600V range also available)
AC Input Current	50mA to 20A
DC voltage	2.0 - 200V
DC current	20mA - 50A (Internal)
DC current Shunt	0.2A - 200A, 100mV (External Shunt)
Accuracy	Class 0.2 (for electrical parameters) 1.0% (for THD)
Resolution	Floating Decimal Point
Software Comm.	USB and RS-232 Port
Internal Memory	Store up-to 32000 Data
Meter Type	Portable (Table Top)



DIMENSION



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ACCESSORIES



USB cable



Power cable



Manual



Software CD



Pendrive



Tower Light



