

TEST PROGRAM: CHARGE TEST

Objective:

Fast charge a battery in a monitored environment. In addition, we can charge battery to the required level for the particular purpose, for example storage.

Procedure and Standard:

After identifying the maximum charge current from the battery specification, a charge cycle is applied to the battery. The charge cycle is featured with automatic fully charge detection, temperature monitored and controlled, safe termination under all conditions.

Equipment:

Please see the following table:

	Cadex C7x00	Cadex C8000	Vencon UBA
Charge Current	100mA - 4A	30mA - 20A	12mA - 3A
Battery Voltage	1.2V - 36V	1.2V - 36V	1.2V - 44V
Battery test range	up to 24Ah	50mAh - 100Ah	20mAh - 120Ah
Chemistry (Rechargeable)	All	All	All
Temperature Controlled	Yes	Yes	Yes
ΔV Detection for NiCd/NiMH	Yes	Yes	Yes

Cadex C7x00



Cadex C8000



Vencon UBA



Result Sample:

The detail display shows the cell voltage, current in mA and battery temperature and duration of charging. The duration of fully charging a rechargeable battery is:

- 1.5 hour for NiCd and NiMH
- 10 hours for SLA
- 4 hours for Lithium type chemistries