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## Touch controlled DC 255V 30A 20CH Capacity Sorting Machine

TCDR255-30-20BY-5G



\* Photos are for reference only.

### Description:

- This machine adopts 10" HMI to set and operate.
- Application :
  - (1) Serial-connect 20 batteries of 12V for discharging test per time.
  - (2) Identify every battery into 5 grades when finish. Automatic save data.
  - (3) Computer controlled. Data processing.

### Features:

- HMI and PLC adopts Japan Mitsubishi. Contactor adopts Japan Fuji.
- Output voltage : max DC 255V.
- Output current : DC 0.5~30.0A, continuous settable. Constant current controlled.
- Capacity classified setting : 5 grades, A, B, C, D, NG. Parameters can be set freely.  
Classified mode: Voltage mode or Time mode
  - (1) Voltage mode:
    - A grade :  $\geq$  XX.XXXV
    - B grade : XX.XXXV ~ XX.XXXV
    - C grade : XX.XXXV ~ XX.XXXV
    - D grade : XX.XXXV ~ XX.XXXV
    - NG :  $<$ XX.XXXV



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(2) Time mode:

A grade :  $\geq$  XXH XXM XXS

B grade : XXH XXM XXS ~ XXH XXM XXS

C grade : XXH XXM XXS ~ XXH XXM XXS

D grade : XXH XXM XXS ~ XXH XXM XXS

NG :  $<$ XXH XXM XXS

- Operation

(1) Operate via HMI.

(2) Operate via external PC.

- Data processing :

(1) Each battery is assembled with independent indicators showing its grade.

(2) Before starting up, system will check open voltage (OV). If OV is failed, indicators will light up and operator should replace the battery. If OV is okay, machine will start discharging and catch data every 4 seconds. During the test, if voltage is below the setting value, the NG battery will trip from system automatically with NG indicator lighting up. When time is up, machine will stop and classified indicators light up. Results of 20 batteries will show in HMI. PC save data automatically.

(3) Data display and reports

Data includes OV, sampling data, CV, time, and classified grade when finished.

Original data is provided. Easy for user to do further analysis.

- Checking platform

(1) Separate 2 layers. Operator can put 20 batteries on each layer. Connect battery by clips (wiring spec. 30A).

(2) Select to use up layer or down layer.

(3) When test is over, classified indicators will keep (until operator clear signal) and operator can sort the batteries by its grades. At the mean time, operator can use another layer to continue checking.

(4) Test flow : Up layer doing discharge – Down layer standby ---  
Up layer standby – Down layer doing discharge.

- Spare parts : Various fuse x 100%

## Utilities Requirement:

- Power source: AC 3Ø 380V 50HZ