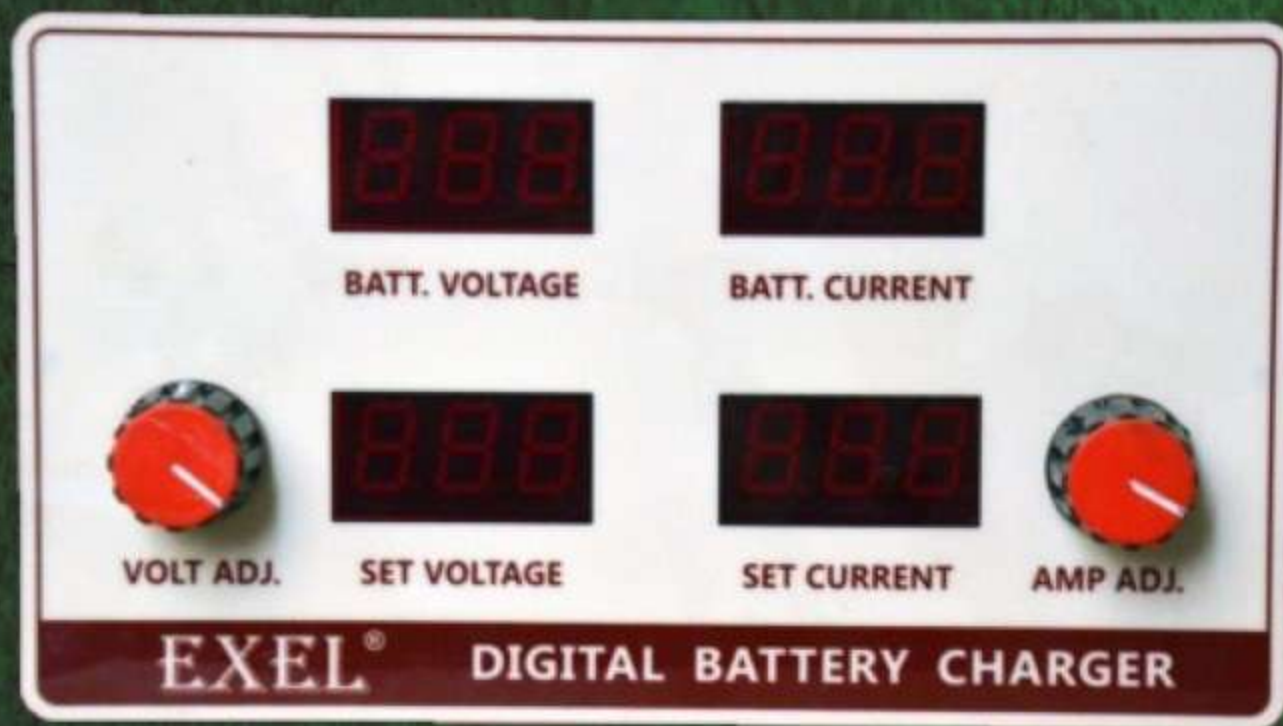


EXEL[®]

DIGITAL BATTERY CHARGER



EXEL Battery chargers are suitable for initial charging of battery banks before putting into actual usages. The initial charging of batteries has a direct impact on the life of batteries. Therefore, the application of these battery chargers is critical. EXEL digital battery chargers are microcontroller based for precise charging as per set values. These chargers are designed to operate in fail safe mode with all protections for unattended operation. The charger provides controlled voltage and controlled current charging irrespective of input mains fluctuations. The final battery voltage and peak charging currents are adjusted initially as per requirement of battery. These chargers provide high degree of isolation hence there is no electric current on battery terminals.

SPECIAL FEATURES

- Microcontroller based Digital Design.
- Constant Voltage / Constant Current operation.
- VOLT. Adj. Pot to set final Battery Voltage.
- AMP Adj. Pot to set Maximum Charging Current.
- Digital Display of set Battery Voltage & Current.
- Digital Display of present Battery Voltage & Current.
- Soft start on Mains Power ON every time.
- High Degree of Isolation.
- Battery short circuit protection. Trip with SC on display.
- Battery over charge protection. Trip with FU on display.
- Input AC Mains protection by MCB.
- No power factor deterioration.
- Oil cooled system for long life .

SPECIFICATION

Capacity	10 Batteries	20 Batteries	60 Batteries
Maximum Voltage	160V	320V	320 V X 3 strings
Maximum Current	10A	10A / 15A	15 A
Input Range	150V-270V	150V-270V	150-270V Three Phases
Oil Quantity	35 Litre	75 Litre / 100 Litre	300 Litre
Adjustment	VOLT Adj. / AMP. Adj.		
Display	Set Voltage / Set Current Battery Voltage / Battery Current		
Over Current Protection	Above 10% of set value After 30 sec. Trip with FU (Fault Mode) on display.		
Over Voltage Protection	Above 10% of set value After 30 sec. Trip with FU on display.		
Short Circuit Protection	Instantaneous at 200% of set value.		
Soft Start	30 seconds at every Input AC on.		

OPERATION

The final charging voltage is adjusted as per number of batteries. The maximum charging current is adjusted as per AH of batteries. When the battery voltage reaches to set voltage & charging current falls to 1A, the battery bank is charged.

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