

## Single cell DSP BASED BATTERY CHARGER 6 Channels (60V/50A)



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**DATAERA EV SYSTEMS LLP**  
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### **Salient Features:**

- ⇒ **Application for Battery Charging**
- ⇒ **Suitable for VRLA, Lion cells**
- ⇒ **High end DSP based intelligent charger**
- ⇒ **Works on 230V AC Mains**
- ⇒ **High Efficiency Battery charging**
- ⇒ **Suitable for Cells of 60V**
- ⇒ **This System is capable of charging the batteries in constant voltage and constant current mode**
- ⇒ **Constant Voltage/Current selection through potentiometers**
- ⇒ **Wide input range high efficiency**
- ⇒ **Output Voltage adjust from 2V to 60V**
- ⇒ **Output Current adjust from 1A to 50A**
- ⇒ **MCB for I/P protection & ON/OFF purpose**
- ⇒ **Digital panel meters for O/P voltage and current display**
- ⇒ **Reverse polarity through fuse**
- ⇒ **Portable tool for battery maintenance**

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## SPECIFICATIONS

CHARGER Specifications	
<b>Voltage</b>	2-60V ( set through multi turn potentiometer)
<b>Current</b>	1-50A(set through multi turn potentiometer)
<b>Line Regulation</b>	+/- 1%
<b>Load Regulation</b>	+/- 1%
<b>Ripple</b>	<1%
<b>Constant Current Mode</b>	
<b>Line Regulation</b>	+/- 1%
<b>Load Regulation</b>	+/- 1%
<b>Ripple</b>	<1%
<b>General</b>	
<b>Input Voltage range</b>	180V-270V AC $\pm 10\%$ , 1 phase, 50Hz
<b>Nominal Ac voltage</b>	230V Ac
<b>Input Supply protection and control</b>	MCB
<b>Output supply protection and control</b>	Overload, over-voltage, Short-circuit Protections
<b>Indicators</b>	
	Ac over voltage (led ,buzzer)
	Ac under voltage(led, buzzer)
	Charging on led
	Dc under voltage
<b>Metering</b>	
<b>Voltage</b>	3 ½ digit voltmeter
<b>Current</b>	3 ½ digit ammeter
<b>Protections</b>	
	AC over voltage
	AC under voltage
	Output short -circuit
	Dc under voltage
	Dc over voltage

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	Input surge current protection
<b>Features</b>	
	Soft start on DC side
	Class-F insulation for all magnetic
	Automatic voltage regulation
	Automatic changeover from CC to CV and vice versa based on current, drawn by battery
	Filter circuit to eliminate ripple.
<b>Stabilization</b>	Output DC supply will be stable against variations in input mains AC supply.
<b>Cabinet</b>	Charger housed in a cabinet with suitable output terminals.
<b>Dimensions</b>	580mm W x 750mm D x 1400mm H (Approx)
<b>Operating Temperature</b>	0°C to + 55 °C

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