

# **RAPIDTRON** **ELECTRONIKA**

PRIVATE LIMITED

**CHARGING DEVICES FOR ALL EV's**



## **Two Wheeler (E-Bike) Li-ion Charger**

### **Salient Features:**

- Microcontroller based intelligent charger.
- Suitable for NMC & LFP Li-ion batteries or Equivalent.
- High Efficiency- Consumes very less power.
- Deep discharge charging capability.
- Very precise voltage and current limits.
- Over charge, Over temperature and voltage protections.
- CC, CV, Pre charge and trickle mode features are available.
- Passed Bump & Vibration tests (From ETDC-HYD) in line with Auto standards.
- Compact Design – Easy to carry.
- ISO9001:2015 certified company.
- Enhances the battery life.

### **Corporate office & Factory address:**

Plot No.1,2&3, Sy No.25 ANR Arcade, 2nd Floor, Near Rampally X Roads,  
Nagaram, Keesara Mandel, Medchal - Malkajgiri dist, Hyderabad- 500083,  
Telangana, India. [www.rapidtron.co.in](http://www.rapidtron.co.in), Ph.:93904 58854 / 91542 46620.

*Powering the future...*

# Two Wheeler (E-Bike) Li-Ion Chargers

## 1. 48V/6A - Model No: RE2AC4806

<b>AC INPUT</b>	
INPUT VOLTAGE RANGE	170V -300VAC
INPUT FREQUENCY RANGE	47Hz - 63Hz
INPUT CURRENT	3A@230V
<b>DC OUTPUT</b>	
OUTPUT VOLTAGE	58.4VDC $\pm$ 0.30V (Can be set as per customer requirement)
OUTPUT NOMINAL VOLTAGE	48V DC
OUTPUT CURRENT	6.0 Amp $\pm$ 0.3A
RIPPLE	<600mV. Pk - Pk, at Nominal Input
NOISE	< 1200mV. Pk - Pk, at Nominal Input
<b>PROTECTIONS</b>	
OUTPUT OVERLOAD	Available
SHORT CIRCUIT PROTECTION	Available
OUTPUT OVER VOLTAGE	Available
BATTERY REVERSE	Available
OVER TEMPERATURE	Available
CHARGING SAFETY TIMER	Available
<b>ENVIRONMENT</b>	
TEMPERATURE	Operation Ambient 0°C to + 50°C Storage -20°C to + 75°C ambient.
<b>INDICATIONS</b>	
MAINS ON	Red Led
CHARGER ON/ CHARGING	25% Green Led Blinking
CHARGE COMPLETE	100% Green Led Constant
<b>ELECTRICAL WIRES</b>	
AC INPUT CONNECTION	3pin AC plug with 3 core Cable, 1.5 Meter length
DC OUTPUT	2core cable with 1.5 meter length
<b>MECHANICAL DETAILS</b>	
DIMENSIONS.	W = 126mm H = 81mm L = 198mm
WEIGHT (Unpacked)	Max. 1.7 KG

## 2. 48V/10A - Model No: RE2AC4810

<b>AC INPUT</b>	
INPUT VOLTAGE RANGE	170V -300VAC
INPUT FREQUENCY RANGE	47Hz - 63Hz
INPUT CURRENT	5A@230V
<b>DC OUTPUT</b>	
OUTPUT VOLTAGE	58.4VDC $\pm$ 0.30V (Can be set as per customer requirement)
OUTPUT NOMINAL VOLTAGE	48V DC
OUTPUT CURRENT	10.0 Amp $\pm$ 0.3A
RIPPLE	<600mV. Pk - Pk, at Nominal Input
NOISE	< 1200mV. Pk - Pk, at Nominal Input
<b>PROTECTIONS</b>	
OUTPUT OVERLOAD	Available
SHORT CIRCUIT PROTECTION	Available
OUTPUT OVER VOLTAGE	Available
BATTERY REVERSE	Available
OVER TEMPERATURE	Available
CHARGING SAFETY TIMER	Available
<b>ENVIRONMENT</b>	
TEMPERATURE	Operation Ambient 0°C to + 50°C Storage -20°C to + 75°C ambient.
<b>INDICATIONS</b>	
MAINS ON	Red Led
CHARGER ON/ CHARGING	25% Green Led Blinking
CHARGE COMPLETE	100% Green Led Constant
<b>ELECTRICAL WIRES</b>	
AC INPUT CONNECTION	3pin AC plug with 3 core Cable, 1.5 Meter length
DC OUTPUT	2core cable with 1.5 meter length
<b>MECHANICAL DETAILS</b>	
DIMENSIONS.	W = 126mm H = 81mm L = 223mm
WEIGHT (Unpacked)	Max. 2.2 KG

## 3. 60V/6A - Model No: RE2AC6006

<b>AC INPUT</b>	
INPUT VOLTAGE RANGE	170V -300VAC
INPUT FREQUENCY RANGE	47Hz - 63Hz
INPUT CURRENT	3.3A@230V
<b>DC OUTPUT</b>	
OUTPUT VOLTAGE	69.3 VDC $\pm$ 0.30V (Can be set as per customer requirement)
OUTPUT NOMINAL VOLTAGE	60V DC
OUTPUT CURRENT	6.0 Amp $\pm$ 0.3A
RIPPLE	<600mV. Pk - Pk, at Nominal Input
NOISE	< 1200mV. Pk - Pk, at Nominal Input
<b>PROTECTIONS</b>	
OUTPUT OVERLOAD	Available
SHORT CIRCUIT PROTECTION	Available
OUTPUT OVER VOLTAGE	Available
BATTERY REVERSE	Available
OVER TEMPERATURE	Available
CHARGING SAFETY TIMER	Available
<b>ENVIRONMENT</b>	
TEMPERATURE	Operation Ambient 0°C to + 50°C Storage -20°C to + 75°C ambient.
<b>INDICATIONS</b>	
MAINS ON	Red Led
CHARGER ON/ CHARGING	25% Green Led Blinking
CHARGE COMPLETE	100% Green Led Constant
<b>ELECTRICAL WIRES</b>	
AC INPUT CONNECTION	3pin AC plug with 3 core Cable, 1.5 Meter length
DC OUTPUT	2core cable with 1.5 meter length
<b>MECHANICAL DETAILS</b>	
DIMENSIONS.	W = 126mm H = 81mm L = 198mm
WEIGHT (Unpacked)	Max. 1.7 KG

## 4. 60V/10A - Model No: RE2AC6010

<b>AC INPUT</b>	
INPUT VOLTAGE RANGE	170V -300VAC
INPUT FREQUENCY RANGE	47Hz - 63Hz
INPUT CURRENT	5.5A@230V
<b>DC OUTPUT</b>	
OUTPUT VOLTAGE	69.3VDC $\pm$ 0.30V 30V (Can be set as per customer requirement)
OUTPUT NOMINAL VOLTAGE	60V DC
OUTPUT CURRENT	10.0 Amp $\pm$ 0.3A
RIPPLE	<700mV. Pk - Pk, at Nominal Input
NOISE	< 1400mV. Pk - Pk, at Nominal Input
<b>PROTECTIONS</b>	
OUTPUT OVERLOAD	Available
SHORT CIRCUIT PROTECTION	Available
OUTPUT OVER VOLTAGE	Available
BATTERY REVERSE	Available
OVER TEMPERATURE	Available
CHARGING SAFETY TIMER	Available
<b>ENVIRONMENT</b>	
TEMPERATURE	Operation Ambient 0°C to + 50°C Storage -20°C to + 75°C ambient.
<b>INDICATIONS</b>	
MAINS ON	Red Led
CHARGER ON/ CHARGING	25% Green Led Blinking
CHARGE COMPLETE	100% Green Led Constant
<b>ELECTRICAL WIRES</b>	
AC INPUT CONNECTION	3pin AC plug with 3 core Cable, 1.5 Meter length
DC OUTPUT	2core cable with 1.5 meter length
<b>MECHANICAL DETAILS</b>	
DIMENSIONS.	W = 126mm H = 81mm L = 223mm
WEIGHT (Unpacked)	Max. 2.2 Kg

## 5. 72V/6A - Model No: RE2AC7206

<b>AC INPUT</b>	
INPUT VOLTAGE RANGE	170V -300VAC
INPUT FREQUENCY RANGE	47Hz - 63Hz
INPUT CURRENT	4.2A@230V
<b>DC OUTPUT</b>	
OUTPUT VOLTAGE	83.95 VDC $\pm$ 0.30V (Can be set as per customer requirement)
OUTPUT NOMINAL VOLTAGE	72V DC
OUTPUT CURRENT	6.0 Amp $\pm$ 0.3A
RIPPLE	<900mV. at Nominal Input
NOISE	< 1800mV. Pk - Pk, at Nominal Input
<b>PROTECTIONS</b>	
OUTPUT OVERLOAD	Available
SHORT CIRCUIT PROTECTION	Available
OUTPUT OVER VOLTAGE	Available
BATTERY REVERSE	Available
OVER TEMPERATURE	Available
CHARGING SAFETY TIMER	Available
<b>ENVIRONMENT</b>	
TEMPERATURE	Operation Ambient 0°C to + 50°C Storage -20°C to + 75°C ambient.
<b>INDICATIONS</b>	
MAINS ON	Red Led
CHARGER ON/ CHARGING	25% Green Led Blinking
CHARGE COMPLETE	100% Green Led Constant
<b>ELECTRICAL WIRES</b>	
AC INPUT CONNECTION	3pin AC plug with 3 core Cable, 1.5 Meter length
DC OUTPUT	2core cable with 1.5 meter length
<b>MECHANICAL DETAILS</b>	
DIMENSIONS.	W = 126mm H = 81mm L = 198mm (Tentative)
WEIGHT (Unpacked)	Max. 1.8 KG

## 6. 72V/10A - Model No: RE2AC7210

<b>AC INPUT</b>	
INPUT VOLTAGE RANGE	170V -300VAC
INPUT FREQUENCY RANGE	47Hz - 63Hz
INPUT CURRENT	6A@230V
<b>DC OUTPUT</b>	
OUTPUT VOLTAGE	83.9VDC $\pm$ 0.30V 30V (Can be set as per customer requirement)
OUTPUT NOMINAL VOLTAGE	72V DC
OUTPUT CURRENT	10.0 Amp $\pm$ 0.3A
RIPPLE	<900mV. Pk - Pk, at Nominal Input
NOISE	< 1800mV. Pk - Pk, at Nominal Input
<b>PROTECTIONS</b>	
OUTPUT OVERLOAD	Available
SHORT CIRCUIT PROTECTION	Available
OUTPUT OVER VOLTAGE	Available
BATTERY REVERSE	Available
OVER TEMPERATURE	Available
CHARGING SAFETY TIMER	Available
<b>ENVIRONMENT</b>	
TEMPERATURE	Operation Ambient 0°C to + 50°C Storage -20°C to + 75°C ambient.
<b>INDICATIONS</b>	
MAINS ON	Red Led
CHARGER ON/ CHARGING	25% Green Led Blinking
CHARGE COMPLETE	100% Green Led Constant
<b>ELECTRICAL WIRES</b>	
AC INPUT CONNECTION	3pin AC plug with 3 core Cable, 1.5 Meter length
DC OUTPUT	2core cable with 1.5 meter length
<b>MECHANICAL DETAILS</b>	
DIMENSIONS.	W = 126mm H = 81mm L = 238mm (Tentative)
WEIGHT (Unpacked)	Max. 2.5 Kg