

E-Rickshaw BATTERY CHARGER

FEATURES

- Available in 48V/12A, 60V/12A & 48V/ 15A.
- Robust Cabinet With Robust Anderson Con.
- SMPS based fully automatic.
- Digital Voltmeter and Amp. Ammeter.
- Digital Control Circuit with powerful Micro Controller.
- Perfect Charging at 140V and also Reliable at 440V.



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महीने की चार्ज



Deep Discharge
Charging Capability



Long Life...

440V

इनपुट

Also Reliable
at 440V

E-Rickshaw MOTOR CONTROLLER

FEATURES

- Battery Low Voltage and over Voltage Protection.
- Over Heating Protection.
- Throttle error Protection.
- Speed Limiting (optional).
- Regenerative Braking (optional).
- Anti Theft protection (optional).
- Hall sensor error protection.

Anti-Theft
Protection



Regenerative
Braking



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महीने की चार्ज





E-Rickshaw BATTERY CHARGER

TECHNICAL SPECIFICATION

Battery Charger	12A	15A
AC Input		
AC Input Voltage - range	160-275 VAC	
AC Input Voltage - nominal	230 VAC	
AC Input Frequency	50Hz ± 3Hz	
AC Input Current - maximum	5.0A	7.0A
Switching Frequency	50 kHz	
Topology	Half - Bridge	Full - Bridge
Connection Type	1.5 meter length with 3 core, 3pin- AC plug	
DC Output		
DC Output Voltage	62.5VDC ± 0.5VDC	60.5VDC ± 0.5VDC
DC Output Current	12A ± 0.3A	15A ± 0.4A
Peak Efficiency	88%	90%
DC Output Line & Load Regulation	Tolerance ± 2%	
Ripples	< 2%	
Connection Type	Anderson Connector with 2 core 2.5sq.mm, 1.5 meter length cable.	Anderson Connector with 2 core 3.0sq.mm, 1.5 meter length cable.
Protections		
Output Overload	Current limit by internal circuit	
Output Short Circuit	Protected by internal circuit	
Output over voltage	Shutdown Output voltage, Reset to recover	
Over temperature with auto recovery	Shutdown Output voltage, recover automatically after temp goes down	
Battery reverse	Protected by DC fuse	Protected By Relay
Cooling	Fan Cooled	
Operation		
AC input Present	WHITE LED Glowing	
DC Output Voltage	Green LED Glowing	
Charging Ampere	Yellow LED Glowing	
Status LED/Bar Graph	25% 50% 75% 100%	
Battery Details		
Battery Type	Lead-Acid, Tubular Batteries	
Battery Capacity	80-105 Ah	100 - 140 Ah
Display Parameters		
DC Voltmeter	7-Segment Digital Voltmeter	
DC Current	7-Segment Digital Ammeter	
Environmental		
Operating Temperature	0° to +50°C	
Storage Temperature	-10°C to +60°C	
Humidity	40°C, 95% RH	
Vibration Test	Pass	
Physical		
Dimensions	W=180mm,H=115mm,D=280mm	W=112mm, H=205mm, D=315mm
Weight	3.5 kg	4 kg
Enclosure	Metallic	

*Specification are subject to change without prior notice due to constant improvement in design & technology.

E-Rickshaw MOTOR CONTROLLER



TECHNICAL SPECIFICATION

Motor type	Brushless DC motor(BLDC)
Rated DC Voltage	48V (4 Batteries)
Commutation Angle	120°C
Continuous current	50A
Power range	1hp-2hp Motor
Battery High/Low	60V/40V respectively
Mosfets	24
Hall sensor	yes
Braking system	Hard/Soft Brake (Regenerative)
Features	Speed Limiting (Optional)
	Regenerative Braking (Optional)
	Anti Theft Protection (Optional)
Protections	Over heat protection
	Battery low & high voltage protection
	Over current protection by internal circuit
	Throttle error protection
	Hall sensor failure Protection
Battery Type	SMF, Automotive, Tubular
Typical Recharge Time	10Hr.
Battery Capacity	65Ah - 150Ah
Physical	
Enclosure material	Aluminium
Dimensions	W=118mm, H=72mm, D=220mm
Weight	1.73 Kg
Environmental	
Operating Temperature	0°C to +50°C
Storage Temperature	-10°C to +60°C

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E-Rickshaw DC - DC CONVERTER

FEATURES

- ➔ Designed to meet adverse Indian climatic condition.
- ➔ Input Reverse Connection Protection (Internal fuse).
- ➔ Best performance due to High Efficient PWM.
- ➔ Aluminum Alloy Cabinet with good heat dissipation and shock absorption.
- ➔ Low Battery cut off.
- ➔ Output Short Circuit Protection.
- ➔ Waterproof, IP65.
- ➔ Light weight.

TECHNICAL SPECIFICATION

DC-Input

DC input Voltage range	40VDC-60VDC
Nominal DC Input Voltage	48VDC

DC-Output

DC-Output voltage	13.2VDC ±0.4VDC
DC-Output current	10A Constant
DC Output Peak current	15A Peak
DC Output Line & Load Regulation	Tolerance ±2%
DC Output Ripple	<300mV
Efficiency	> 90%

Protection

Overload Protection	Available
Output Short Circuit Protection	Available
Output Over Voltage Protection	Available
Input Under Voltage Protection	Available (Input Low Cut Off < 40Vdc)
Input Battery Reverse Protection	Through Fuse

Environmental

Operating Temperature	0°C to 50°C
Storage Temperature	-10°C to +60°C

Mechanical

Input/ Output Terminal	Auto Mobile 3 pin male connector (DJ7031A-2.8)
Enclosure Material	Aluminum
Ingress Protection	65
Dimensions (LxWxH)	96mmX55mmX45mm
Weight	300gm

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