

## E- RICKSHAW SMART CHARGER 48V 20A

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The **XSTRONG POWER** Manufactures innovative products for E-Vehicle Domain. Battery Chargers, Battery Dischargers and continues to add to this list.

This EV CHARGER is high frequency CV,CC, CW (Constant Voltage Constant Current and Constant Watts) Charger with exclusive feature of sharp knee point charging.

This is a **Microcontroller Based Charger** which includes features like

Soft charging, UV AI, Surface charging, AH based LED indication etc.

The Input and Output connections are available through cable.



### E-RICKSHAW CHARGER SPECIFICATIONS FOR LEAD ACID & LITHIUM ION BATTERY

S.NO	PARAMETERS	RANGE	REMARKS
1	Input Voltage	Low Cut-off : 180VAC	With limited current.
		High Cut-off : 280VAC	After High cut-off, charger does not operate when High cut-in occurred and after mains comes clear than charger normal operation will start automatically.
2	Input Current	7A ± 0.2A	Less Power Consumption
2	Input frequency	50 Hz ± 2%	Less Power Consumption
3	Output Voltage	64V ± 1%	Lead acid Battery
		54.6V ± 1%	Lithium ion Battery
4	Output Current	20A ± 0.2A	Suitable for Lead acid & Lithium ion Batteries
5	Regulation	± 2%	Smart Battery Charging
6	Current and Watt Control	CV,CC and CW	Constant Voltage, Constant Current and Constant Watts
7	Efficiency	More than 90%	Low Power Consumption
8	Soft Start	1A to 20A	When Charging start Output current increases from 1A to 20A.
9	Surface Charging	2A to 3A	After full charged, when BMS wake up, charging will start with 2 to 3A. This helps equalize charging.
10	Charging Cutoff		Usually charger is cutoff by BMS, when BMS cutoff not occurred then charger will automatic cutoff after 10 mins when output current reduces less than 1A.
11	LED Indications	Battery full charged	100 % Green LED will solid on.
		Battery charging indication based on AH Green, Yellow and Red LED Blinks	<90% Green LED Blinks and after completion will glow solid.
			<70% Yellow LED Blinks and after completion will glow solid.
			>50% Yellow LED Blinks and after completion will glow solid.
			<40% Red LED Blinks and after completion will glow solid.
		<20% Red LED Blinks and after completion will glow solid.	
		Mains High Red LED	Mains input High means above 280VAC
Mains Ok Green LED	Mains input Fine means 180VAC to 280VAC		
Mains Low Yellow LED	Mains input low means below 180VAC		
Batt. Connected Green LED	When charger connect with Battery properly than Green LED will on.		
12	Battery Reverse Protection	Charging will show off	Battery opeated charger.
13	Input Connections	1.5mtr main cord	5A 3 pin top
14	Output Connections	1.5mtr 3 core cable	Connector as per requirement
15	Cooling	DC Fan	Inlet DC fan for fast cooling
16	Weight	1.7 Kg	Light weight, Easy to handle
17	Enclosure	Aluminium	Aluminium body
18	Dimensions	257L x 150W x 80H (mm)	Compact Size