

## E- SCOOTY SMART CHARGER 72V 5A

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The EMSONIQ Manufactures innovative products for E-vehicle Domain. Battery Chargers, Battery Dischargers and continues to add to this list. This EV CHARGER is high frequency CVCC, CW (Constant Voltage Constant Current and Constant Watt) 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.

### EV CHARGER SPECIFICATIONS FOR Li-ion BATTERY

S.NO	PARAMETERS	RANGE	REMARKS
1	Input Voltage	UV Cut-in : 160Vac	With limited current.
		UV Cut-off : 120Vac	Please see below for U V cut-Off AI region
		OV Cut-off : 270Vac	
		OV Cut-in	After OV cut-off, charger does not operate when OV cut-in occurred. so that charger normal operation will start after J-I mins. Power ON reset!
2	Input frequency	50 Hz $\pm$ 3%	
3	Output Voltage	54.6V $\pm$ 1%	Lithium ion
		58.8V $\pm$ 1%	LiFePO4
4	Output Current	10A $\pm$ 0.5A	Suitable for LiFePO4 & Lithium ion
5	Regulation	$\pm$ 2%	Excellent Battery Charging
6	Current and Watt Control	CVCC and CW	
7	Efficiency	More than 90%	Less Power Consumption
8	Soft Start	1A to 10A	When Charging start Output current increases from 1A to 12A in step after 3 sec.
9	Surface Charging	2 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	Green LED will solid on.
		Battery charging indication based on AH Green, Yellow and Red LED Blinks	0 to 25% Red LED Blinks and after completion will glow solid.
			26% to 50% Yellow LED Blinks and after completion will glow solid.
			51% to 75% Yellow LED Blinks and after completion will glow solid.
			76% to 100% Green LED Blinks and after completion will glow solid.
	Fuse Blown RED LED	Fuse Blown Red LED will on.	
	System on RED LED	When charger connect with AC System Red LED will on.	
12	UV Cutoff -AI Region	190Vac to 170Vac	Below T90Vac output current decreases by TUyoln Step, WHIC Up voltage is stable o/p current increase by 1U in Step after 30 Sec. Below 170vac to 120 Vac o/p current Is limited
13	Battery Reverse Protection	Fuse Blown RED LED	Fuse Blown Red LED will on. (RESET POWER ON)
14	Input Connections	1.5mtr main cord	5A 3 pin top
15	Output Connections	1.5mtr 2 core cable	Connector as per request
16	Coolong	DC Fan	Inlet and outlet DC fan for fast cooling
17	Weight	1.7 Kg	Light weight, Easy to handle
18	Dimention	268L x 150W x 70H (mm)	Compact Size