

## Four Wheeler On-Board CCCU (Battery Charger + DC-DC Converter)



This Combined Unit contains a 3KW Battery Charger along with 1KW DC-DC Converter to fulfill all kinds of charging and auxiliary power requirements of Electric Cars/Vans. It is engineered to meet specific requirement of Electric Mini Buses as well. This CCCU is designed for 72V/48V battery systems with inbuilt CAN communication. Efficient, Cost effective, compact in size and light in weight are its USP's.

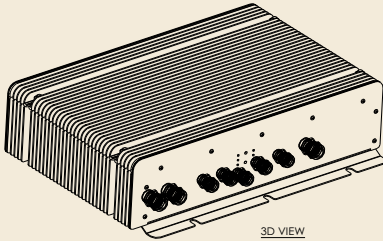
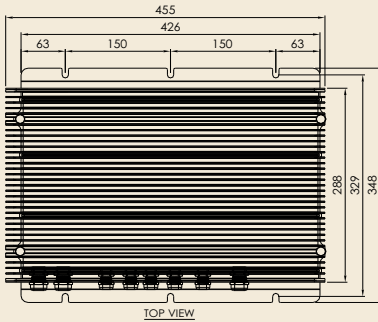

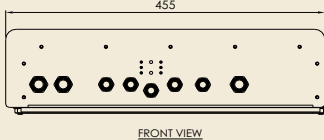
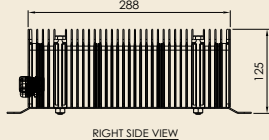
### **SALIENT FEATURES:-**

- \* Both the Charger and DC-DC can operate at a time with a maximum power of 4.0KW constant
- \* Over Temperature protection
- \* Circuit designed with over voltage and under voltage protections
- \* Battery reverse polarity protection
- \* Battery Deep Discharge protection
- \* Overload and short circuit protection
- \* Designed to meet adverse Indian road and climatic condition
- \* Aluminum alloy cabinet with good heat dissipation and shock absorption
- \* Designed for high efficiency with resonance topology

### **THE COMPANY:-**

- \* 18 Years Experience of the field.
- \* Experienced R&D Team.
- \* An ISO 9001:2008 Manufacturing facility.

## SPECIFICATIONS

CHARGER SPECIFICATIONS		DC-DC SPECIFICATIONS	
<b>AC Input</b>		<b>DC Input</b>	
AC Input Voltage - Range	170 - 300VAC	DC Input Voltage - Range	65 - 95VDC/(48VDC also available)
AC Input Voltage - Nominal	230VAC	DC Input Voltage - Nominal	72VDC
AC Input Current - Maximum	16A	DC Input Current - Maximum	17A
Power Factor	>0.95		
<b>DC Output</b>		<b>DC Output</b>	
DC Output Voltage Nominal	72VDC / (48VDC also available)	DC Output Voltage	13.8VDC±0.4V
DC Output Voltage Maximum	95VDC	DC Output Current	72Amp
DC Output Current	30Amp	DC Output Power	1000 Watts
DC Output Power Nominal	2700 Watts	DC Output Line & Load Regulation	Tolerance ± 2% at cable
DC Output Line & Load Regulation	Tolerance ± 2% at cable	Efficiency	>90%
Efficiency	>90%		
<b>Protections</b>		<b>Protections</b>	
Output Over Load	Available	Output Over Load	Available
Output Short Circuit	Available	Output Short Circuit	Available
Output Over Voltage	Available	Output Over Voltage	Available
Battery Reverse	Available	Battery Reverse	Available
Over Temperature	Available	Over Temperature	Available
<b>Communication</b>		<b>Communication</b>	
CAN	Available	CAN	Available
Hardware Enable	Available	Hardware Enable	Available
<b>Environmental</b>		<b>Environmental</b>	
Operating Temperature	0°C to +50°C	Operating Temperature	0°C to +50°C
Storage Temperature	-10°C to +60°C	Storage Temperature	-10°C to +60°C
<b>Mechanical</b>			
Enclosure	Aluminum Enclosure with Water Proof (IP65)		
Dimensions	L= 455mm, H=125mm, W=348mm		
Weight	18.0Kgs.		
Wiring (Input & Output)	Input : 2.5sq three Core Cable, Output : Red (+ve), Black (-ve)		
DC input & output connector	As per requirement		
    			

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\* Specifications may change without prior notice.