

Features

- IP20 Grade High Efficiency Battery Charger
- CAN Communication
- Battery Reverse Polarity Protection
- Output short circuit Protected
- Operation up-to 50°C ambient
- Thermal Shutdown at 70°C Heatsink Temperature
- Regulatory compliance (ARAI Certification pending)



Performance Specifications and Protections

Parameter	Value			Comment
	CH-0K60P2024	CH-0K65P2048	CH-0K65P2072	
Maximum Output Power (peak)	600W <small>(30V,20A [+/- 1%])</small>	650W <small>(54.2V,12A [+/- 1%])</small>	650W <small>(81.3V,8A [+/- 1%])</small>	
Charging Voltage Range	20-30V	40-60V	60-85V	Software programmable value
Maximum Charging Current	20A	12A	8A	
Efficiency (@ 240Vac, 100% load)				
Output Over Voltage /Under Voltage Protection	30V /20V	60V /40V	84V /60V	Software programmable value
Steady State current accuracy	1%			Charging current is within +/-1% [or 100mA] of limit set by software / BMS
Output Voltage Ripple	2% of rated output voltage			RMS Voltage ripple measured with resistive load
Output Current Ripple	5% of Max Current			RMS Current ripple measured with resistive load
Standby AC Power consumption	2W			
Standby DC current from battery	< 1mA			
Output Overload Protection	>650W			Software programmed value 1000W (approx.)
Maximum Input surge voltage	6000V			As per IEC61000-4-5
CAN channel Interface with BMS and/or Vehicle ECU	CAN 2.0A bd - 250Kbps – 1Mbps			Can be customized
Charger body earthing	1mΩ			Max resistance between input earth to Charger body
Isolation - Input to output	1500 V-rms			
Isolation – Input and Output to Chassis	1500 V-rms			

Input and Environment Specification

Parameter	Value	Comment
Absolute Maximum Input Voltage range	170V-265V AC	Under voltage lockout at 170Vac Reduced performance between 170V to 207Vac
Input Voltage range for 100% performance	207-230-265V, 47-53Hz	IS 12360 Standard
AC Power Factor	99%	Above 15% of rated power
Operating temperature	-20 to 50°C	100% performance up to 40°C; Reduced power from 40°C to 50°C
Storage temperature	-20 to 85°C	
Relative Humidity	0 to 95%	

Display Feature

Charging LED Indication	Green	Blink when charging
Fault Indication	Red	Glow under any kind of fault
Power ON Indication	Green	Glow when powered up

Mechanical Packaging and Interconnection Requirement

Parameter	Value	Comment
Mounting Holes		
Mounting orientation	Table top	
Input Plugin Connector	3 Pin (IS 1293 compliant)	1 meter length cable
Output Battery Connection	SB50 connector	1 meter length cable (can be customized)
CAN Connection	Free wire	CAN High, CAN Low, CAN Gnd
Cooling	Forced Fan cooling	
Enclosure material	Aluminum	
Overall dimension	220mm x 120mm x 75mm	
Weight	1.8 Kg ± 0.2 Kg	