

## Features

- IP65 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 Case Temperature
- Regulatory compliance (ARAI Certification pending)



Performance Specifications and Protections

Parameter	Value			Comment
	CH-1K75P6524	CH-1K75P6548	CH-1K75P6572	
Maximum Output Power (peak)	1650W <small>(30V,55A [+/- 1%])</small>	1750W <small>(54.7V,32A [+/- 1%])</small>	1750W <small>(79.5V,22A [+/- 1%])</small>	
Charging Voltage Range	20-30V	40-60V	60-85V	Software programmable value
Maximum Charging Current	55A	32A	22A	
Efficiency (@ 240Vac, 100% load)	≥92%	≥93%	≥92%	
Output Over Voltage / Under Voltage Protection	29.1V /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	>1750W			Software programmed value 1750W (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			

<b>Input and Environment Specification</b>		
Parameter	Value	Comment
Absolute Maximum Input Voltage range	170V-265V AC	Undervoltage 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%	
<b>Display Feature</b>		
Charging LED Indication	Green	Blink when charging
Fault Indication	Red	Glow under any kind of fault
Power ON Indication	Green	Glow when powered up

<b>Mechanical Packaging and Interconnection Requirement</b>		
Parameter	Value	Comment
Mounting Holes	4 holes	
Mounting orientation	Table top / Wall Mount	
Input Plug-in 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	260mm x 185mm x 95mm	
Weight	4.6 Kg ± 0.3 Kg	