

Features

- IP66 Grade High Efficiency DC DC Converter
- Output Over Voltage/ Over Current Protection
- Input Under Voltage/ Over Voltage Protection
- Output short circuit Protected (Current Limit)
- 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-0K25P6672	DC-0K38P6648	DC-0K38P6672	
Maximum Output Power (peak)	270W (13.5V,20A [+/- 2%])	385W (12.8V,30A [+/- 2%])	385W (12.8V,30A [+/- 2%])	At 50°C ambient for 30 minutes
Output Power (Continuous)	200W (13.5V,15A [+/- 2%])	320W (12.8V,25A [+/- 2%])	320W (12.8V,25A [+/- 2%])	
Input Voltage Range	35-95V	35-65V	35-95V	Hardware settings value
Efficiency (@ 60Vdc input, 80% load)	≥90%	≥90%	≥90%	
Input Over Voltage /Under Voltage Protection	35V /95V	35V /65V	35V /95V	Hardware settings value
Output Voltage Range	12.5-13.5V			Hardware settings value
Output Voltage Ripple	3% 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	-			
Standby DC current from battery	< 1mA			
Output Overload Protection	-			
Maximum Input surge voltage	-			
CAN channel Interface with BMS and / or Vehicle ECU	-			
Charger body earthing	1mΩ			Max resistance between input earth to Charger body
Isolation - Input to output	-			Non-isolated design
Isolation – Input and Output to Chassis	-			

Input and Environment Specification		
Parameter	Value	Comment
Absolute Maximum Input Voltage range	35V-95V DC	Undervoltage lockout at 35VDC Overvoltage lockout at 90VDC
Operating temperature	-20 to 50°C	Thermal shutdown at 70°C case temperature
Storage temperature	-20 to 85°C	
Relative Humidity	0 to 95%	

Mechanical Packaging and Interconnection Requirement		
Parameter	Value	Comment
Mounting Holes	2 holes	
Mounting orientation	Table top / Wall Mount	
Input wire	350mm length, 2.5sqrmm	Red color, 35-90*Vdc Input
Ignition wire	350mm length, 1sqrmm	Blue color, 35-90*Vdc Input
Ground wire	350mm length, 2.5sqrmm	Black color, 0Vdc Input/output
Output wire	350mm length, 2.5sqrmm	Yellow color, 12.5*Vdc Output
Cooling	Self air cooling	

3D Dimensions

