



Himalaya DC Charger Power Module

Power Module Assembly Document

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1. INTRODUCTION

1.1 Purpose

The purpose of this document is to describe the steps for PoM assembly into single package (Box) after LV FCT test for High voltage power testing.

1.2 Scope of this document

Power Module Packaging includes following items:

- Power Board 1 (PB1)
- Power Board 2 (PB2)
- Gate Driver Board Primary (GDB1)
- Gate Driver Board Secondary (GDB2)
- One Board to board connector.
- Power cable
- Heat sinks quantities (PB1- 3, PB2- 4 (Primary side -2 & secondary side-2)
- Enclosure
- Top & Bottom insulation sheet
- Heat sinks insulation Sheets!
- Thermal Pad (sheets) For PB1-3 & PB2-4 Quantities
- NTC- PB1-1 Quantity & PB2-2 Quantities with connector
- FAN assembly with Connectors.
- Short pins (black color)



1)- PB1 & PB2 Enclosure Should be available.



2)-Fix Black color insulation sheets in PB1 & PB2 enclosure.



3)-Put PB1 & PB2 In enclosure including insulation sheets and fix it with screws

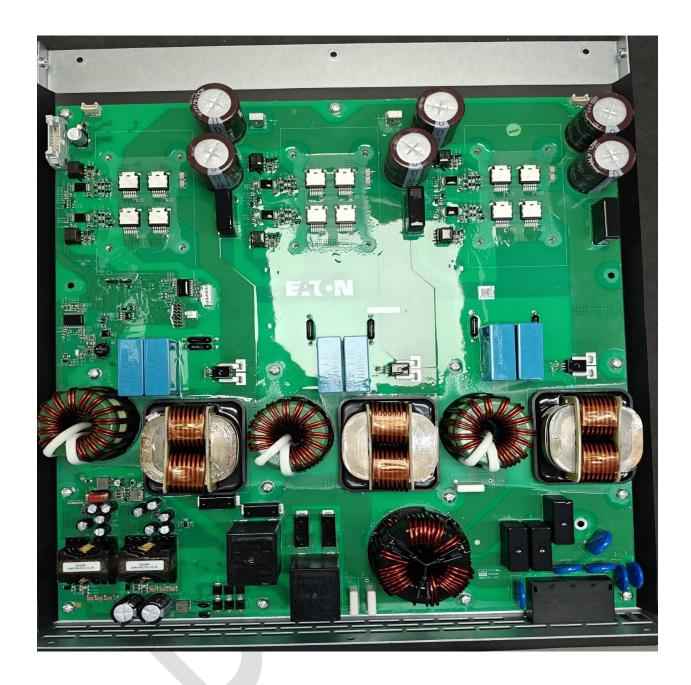
(SCREW Spring and flat Washer M4*8 ZN K-PZ)



PB2



PB1



4)-Prepare Heat Sinks for PB1 & PB2 Mosfets in following manner:

4.1-Paste White color insulation sheets on heat sink.



4.2-Place Thermal pad on heat sinks



5)-Place Heat Sinks on PB1 & PB2 and tight it with screws and ensure that screws should not be loosed. (SCREW, Spring and Flat WASHER M4*15 TRUSS CROSS ZN)



PB1



PB2



PB1 & PB2 after placing all screws.



6)-Place NTCs on PB1 (One quantity) & PB2 (2 quantities) Heat Sinks. After placing put the glue $\,$

PB1-J41 Connector



PB2- J41 & J62 Connector



7)-Start packing PB1 & PB2 by overlapping on each other and placing screws (M4*8 Flat Zn Blue Pre-Glue D7)







8)-Place board to board connector mentioned in red portion.









