

NOTES:

Built on PMP8740 Rev_C PCB

Ref. Des. > 99 have been added on the board

Main power consumptions:

Primary Side:

UCC28180: 200mW (driver included)

Secondary Side:

Relay: 400mW

FAN: 1.7W

LCD backlight: 600mW

Various: 1W

Needed Auxiliary: 6W

Total: 10W

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To J1 of PFC Board

J3
[MECH]
0015244048

CS1 [MECH]
0002081201

CS2 [MECH]
0002081201

CB1 [MECH]
3132-18-1-0500-004-1-TS

CS3 [MECH]
0002081201

CS4 [MECH]
0002081201

CB2 [MECH]
3132-18-1-0500-001-1-TS

Assembly for connecting J1 of this board to J7 of Full Bridge board

To J7 of FB Board

J4 [MECH]
0015244048

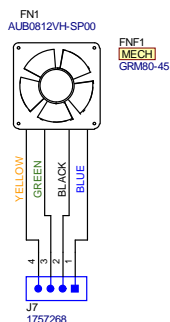
CS5 [MECH]
0002081201

CS6 [MECH]
0002081201

CS7 [MECH]
0002081201

CS8 [MECH]
0002081201

FAN Assembly



Connect J7 to J1 of Full Bridge board

Q1, Q2 and D2 assembly

RS1
THFU 3

SP1 [MECH]
WSC3P

Fix Q1 on HS3 with RS1 and SP1

RS2
THFU 3

SP2 [MECH]
WSC3P

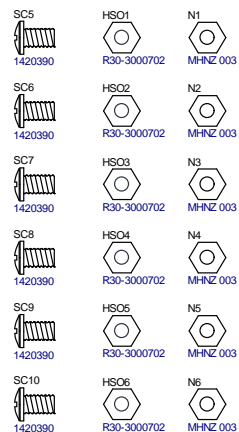
Fix Q2 on HS3 with RS2 and SP2

RS3
THFU 3

SP3 [MECH]
WSC3P

Fix D2 on HS2 with RS3 and SP3

PCB mounting assembly



Flat cable connecting J5 (PFC) to J5 (FB)



Connect J8 to J5 of this board
Connect J9 to J5 of Full Bridge board

HS2 and HS3 assembly

SC1 1420390 LW1 MLWZ 003 MW1 MFVZ 003 NW1 3349

SC2 1420390 LW2 MLWZ 003 MW2 MFVZ 003 NW2 3349

SC3 1420390 LW3 MLWZ 003 MW3 MFVZ 003 NW3 3349

SC4 1420390 LW4 MLWZ 003 MW4 MFVZ 003 NW4 3349

Use NW1...4 to Isolate HS2 & HS3
Use SC1...4, LW1...4 and MW1...4 to fix HS2 and HS3

D3 assembly

RS4
THFU 3

RS5
THFU 3

Fix D3 on HS1 with RS4, RS5

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Orderable:	Designed for: Public Release	Mod. Date: 7/25/2019
TID #:	Project Title: 2KW Battery Charger	
Number: PMP8740	Rev: E	Sheet: 2 of 2
SVN Rev: Not in version control	Assembly Variant: [No Variations]	File: PMP8740 Rev E 2KW BC Boost - Hardware Sch 0 Size: B
Drawn By:	Engineer: R. Scibilia	Contact: http://www.ti.com/support