**bq40z60 EVM-578**

Excessive Charge Current (<3 Amp Charge Setting) occurs in Charge Inhibit Mode as the AC Adapter is applied.

The excessive current results into a Short Circuit Protection – Continuous (hiccup/trip & restart mode with auto recovery) when the AC Adapter is applied (XP Power VEF50US12).

We are experiencing excessive charge current (<3Amp Charge setting) when in Charge Inhibit Mode (<40C) as the AC Adapter is applied with a load of 2Amps on VSYS, J5 (the excessive current does not occur with no load).

The system turned Off (0 Amps on VAC, J1) when a 10Amp lab supply was used instead of the AC Adapter (with Short Circuit Protection) see ChargeInhibit\_VAC\_HiDrv\_iAC\_iBatt\_Bad\_8\_10AmpSupply.bmp.

We are detecting the Charge Inhibit mode as described the Technical Reference Manual (Section 4.13) but the excessive current is a problem.

The experiments were done by replacing RT1 with a 10 turn 100K potentiometer (to dial in the temperatures.

Attached files include:

* bq40z60\_v0\_15\_build\_21\_2S6P\_R0.05a.srec
* Good/Bad log files
* Good/Bad waveforms

Ch1 – VAC (J1)

Ch2 – HiDriv (pin 27)

Ch3 – iAC (current at J1)

Ch4 – iBatt (current at J3)

* AC Adapter Power Supply Data Sheet

The battery is a 2S6P configuration (Li Ion Chem ID: 2012).

Any ideas of setting to change??

Can CHG INHIBIT be disabled?

Thanks,

Tom