MAGNUM ENERGY

TECH BULLETIN

TECH BULLETIN NUMBER	TB0152
PCR	070908
SUBJECT	MMS1012 Control Board Rev D & Software Version 1.2
MODELS AFFECTED	MMS1012
WARRANTY	Yes; covered under the normal product warranty

Change Description	
WAS:	**IS:**
Inverter Software	**Inverter Software**
Inverter and DSP 1.1	Inverter and DSP 1.2
Only compatible with Rev A control board.	Only compatible with Rev B and above control boards.
Maximum supported battery bank size was 1000Ah.	Increased to 1400Ah. (240 minute Absorb)
Going into and out of SEARCH mode is too slow.	Improved search recovery time.

HIGH BATTERY fault had 0.1V of hysteresis	HIGH BATTERY fault now has 0.3V of hysteresis (fault at 16.0V, recover at 15.7V)
It was possible to disqualify the AC input, but not open the relay and, at the same time, start to invert.	This is no longer possible. The relay de-energizes before the inverter starts.
	Enabled fast transfer when VAC dropout is set above 101 VAC.
No HIGH AC VOLTS fault issued in voltage range of 140VAC to 160VAC.	Fault issued when VAC in is above 140V and the inverter is charge mode.
Unit able to connect to very high VAC if PTC was tripped and VAC in was removed and then re-applied within several seconds (detection required 700ms).	Fast high VAC detection prior to transfer: checks first few cycles, before PTC can reopen. Detection time is now 150ms.
Communication bytes from remote are not validated before executed.	Inverter validates the packet length (16 bits) before information is executed.
Charger dials back if ambient temperature >45^{0}C.	Charger dials back only if FETs are >75^{0}C and ambient is >45^{0}C.
	All charger electronics and functionality moved into the DSP.