



### Outline Specification – BMS Series Battery Management System

<b>Architecture</b>	Single host board and up to 16 satellite boards per host	
<b>Versions</b>	Unenclosed PCBs for installation within a customer's battery pack Supplied in one or more Provector enclosures with connectors	
<b>Configuration</b>	Individual voltage channels configurable up to 20V full-scale Alarm and warning setpoints Configurable message output Configurable interfaces to other equipment	
<b>Functions</b>	<b>Satellite boards</b>	Measurement of 12 voltage and 12 temperature channels on each satellite board
		Synchronous measurement and monitoring of all voltage channels within a system
		Temperature channels read in sequence of 12 on each satellite, satellites read in parallel
		SOC estimation based on Provector model with OCV calibration option
		Passive cell/module balancing
	<b>Host board</b>	Co-ordination of all satellites, overall results accumulation and limit checking
		Control of up to 4 off 500A contactors
		Control of up to 4 off cooling fans, including speed control
		Monitoring of 4 system temperatures
		Monitoring of string current using external current sensor
		Monitoring of SLI battery voltage and current using external current sensor
		Provision for connection of a Ground Fault Indicator (GFI) module
		CAN interface to a drive controller
		Vehicle interface incorporating either a CAN interface or lights and sounder support
Interface to a hydrogen sensor		
Interface to a CAN-based charger		
Interface to a CAN-based DC/DC converter		
Interface to a GPS sensor		
<b>Support</b>	PC Monitoring tool with comprehensive data display and logging functionality Excel macros to plot logged data	