

## Orion BMS Custom Messages for use with HPEVS

		ADDRESS ID	
		0x300	0x301
Length in bytes		8	8
Byte0		Low Cell Voltage	Pack SOC
Byte1		Low Cell Voltage High Byte	High Temperature
Byte2		High Cell Voltage	Low Temperature
Byte3		High Cell Voltage High Byte	12v Supply
Byte4		Pack Current	12v Supply High Byte
Byte5		Pack Current High Byte	<b>*Custom Flag</b>
Byte6		Pack Amphours	n/a
Byte7		Pack Amphours High Byte	n/a

*Custom Flag	
Bit #1	Charge Interlock
Bit #2	DTC: Internal Comm Fault
Bit #3	DTC: Low Cell Voltage Fault
Bit #4	DTC: Current Sensor Fault
Bit #5	DTC: Internal Memory Fault
Bit #6	DTC: Internal Logic Fault
Bit #7	DTC: High Voltage Isolation Fault
Bit #8	Error (Mil) Output

### Notes:

CAN Bus Baud rate	Message setting transmit speed for mailboxes 0x300 and 0x301	byte order
250 kbps	104 ms	Big Endian

### Address 0x300

Byte0:	low cell voltage set by multiply by 1 then divide by 10
Byte1:	low cell voltage high byte
Byte2:	high cell voltage set by multiply by 1 then divide by 10
Byte3:	high cell voltage high byte
Byte4:	Pack current set by multiplying by 1 then divide by 1; signed value
Byte5:	Pack current high byte
Byte6:	Pack Amphours set by multiplying by 1 then divide by 1
Byte7:	Pack Amphours high byte

### Address 0x301

Byte0:	Pack SOC value set by multiplying by 1 then divide by 2
Byte1:	High Temperature set by multiplying by 1 then divide by 1
Byte2:	Low Temperature set by multiplying by 1 then divide by 1
Byte3:	12 volt supply set by multiplying by 1 then divide by 1
Byte4:	12 volt supply, high byte.
Byte5:	<b>Custom Flag #2</b>
Byte6:	not used
Byte7:	not used