

HPEVS OBDII LIST

PID Name	Unit Name	Min Value	Max Value	Metric to English Scale Factor	Module/Header	OBD Mode	PID Number	Equation Structure: high byte, low byte	Display Range/Raw Data across the CAN BUS Decimal/ HEX	Notes
Acuity_Battery_Temperature	Acuity_Battery_Temperature	0	100	1	none	22	22B2	(B * 256 + A)/100	0-100/ 0-64	Temperature determined with use of Acuity and sent through CAN BUS
Brake_Command	Brake Command	0	100	1	none	22	25B3	(B * 256 + A) / 327.67	0-100%/ 0-7FFF	
Build_Number	Build Number	0	32767	1	none	22	26A4	(B * 256 + A)	0-32767/ 0-7FFF	
Capacitor_Voltage	Capacitor Voltage	0	200	1	none	22	25A0	(B * 256 + A)/64	0-100/0-15000/ 0-3A98	
Controller_Fault_Primary	Primary Controller Fault	1	100	1	none	22	22B1	A	0-100/ 0-64	
Controller_Serial_Number	Controller Serial Number	0	4294967295	1	none	22	26A1	(C * 65536) + (B * 256 + A)	0-4294967295/0-FFFFFFFF	
Controller_Temp_Cutback	Controller Temp Cutback %	0	100	1	none	22	25AB	(B * 256 + A) / 40.96	0 - 100% / 0-1000	
Controller_Temperature	Controller Temp C	-100	300	1	none	22	25A3	(B * 256 + A) / 10	-100 to 300 °C / FF9C-12C	
Curtis_Model_Number	Curtis Model Number	0	4294967295	1	none	22	26A0	(C * 65536) + (B * 256 + A)	0-4294967295/0-FFFFFFFF	
Highest_Bank_ID	Highest Bank ID	0	10	1	none	22	22A7	A	1-48/1-30	Used with a BMS
Highest_Bank_Voltage	Highest Bank Voltage	0	100	1	none	22	22A6	(B * 256 + A)/100	0-4.00/0-190	Used with a BMS
Highest_Cell_ID	Highest Cell ID	0	100	1	none	22	22A7	A	1-10/1-10	Typically four; Information based on Voltages sent by the Acuity
Highest_Cell_Voltage	Highest Cell Voltage	0	4	1	none	22	22A6	(B * 256 + A)/100	0-100/ 0-64	Voltage determined with use of Acuity and sent through CAN BUS
Keyswitch_Voltage	KSI	0	150	1	none	22	25A1	(B * 256 + A)/100	0-327.67/0-7FFF	
KW_Input	KW Input	0	32767	1	none	22	22AC	(B * 256 + A)/100	0-327.67/ 0-7FFF	
KW_Remaining	KW Remaining	0	32767	1	none	22	22A1	(B * 256 + A)/100	0-327.67/ 0-7FFF	
Lowest_Bank_ID	Lowest Bank ID	0	10	1	none	22	22A9	A	1-10/1-10	Typically four; Information based on Voltages sent by the Acuity
Lowest_Bank_Voltage	Lowest Bank Voltage	0	100	1	none	22	22A8	(B * 256 + A)/100	0-100/ 0-64	
Lowest_Cell_ID	Lowest Cell ID	0	100	1	none	22	22A9	A	1-48/1-30	Used with a BMS
Lowest_Cell_Voltage	Lowest Cell Voltage	0	0	1	none	22	22A8	(B * 256 + A)/100	0-4.00/0-190	Used with a BMS
Main_State	Main State	0	10	1	none	22	25A9	A	0-10/0-10	
Manufacture_Date	Manufacture Date	0	32767	1	none	22	26A2	(B * 256 + A)	0-32767/ 0-7FFF	example:if the serial number printed on your controller is 08045L11493, the Mfg Date Code variable will have the value of 08045 (45th day of 2008)

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PID Name	Unit Name	Min Value	Max Value	Metric to English Scale Factor	Module/Header	OBD Mode	PID Number	Equation Structure: high byte, low byte	Display Range/Raw Data across the CAN BUS Decimal/ HEX	Notes
Mapped_Brake	Mapped Brake	-100	100	1	none	22	25B4	(B * 256 + A) / 327.67	-100 to 100%/ 8000 to 7FFF	
Mapped_Throttle	Mapped Throttle	-100	100	1	none	22	25B1	(B * 256 + A) / 327.67	-100 to 100%/ 8000 to 7FFF	
Measured_Battery_Current	Amps	0	12000	1	none	22	22A0	(B * 256 + A)/10	0 to 2EE0	
Motor_RPM	Motor RPM	0	8000	1	none	22	25A5	(B * 256 + A)	0-8000/ 0-1F40	
Motor_Temp_Cutback	Motor Temp Cutback	0	100	1	none	22	25AA	(B * 256 + A) / 40.96	0 - 100%/ 0-1000	
Motor_Temperature	Motor Temp C	-100	300	1	none	22	25A2	(B * 256 + A)/10	-100 to 300 °C / FF9C-12C	
MotorspeedA	MotorspeedA	0	8000	1	none	22	25A6	(B * 256 + A)	0-8000/ 0-1F40	
MotorspeedB	MotorspeedB	0	8000	1	none	22	25A7	(B * 256 + A)	0-8000/ 0-1F40	
OS_Version	OS Version	0	32767	1	none	22	26A3	(B * 256 + A)	0-32767/ 0-7FFF	
Overvoltage_Cutback	Overvoltage Cutback	0	100	1	none	22	25AD	(B * 256 + A) / 40.96	0 - 100%	
Pack_Voltage	Pack Voltage	0	600	1	none	22	22AB	(B * 256 + A)/100	0-32767/ 0-7FFF	equals all bank voltages added together
Pot2_Raw	Pot2 Raw	0	5.5	1	none	22	25B5	(B * 256 + A)/6553.5	0-5.5V/ 8CCC	
RMS_Current	RMS Current	0	1000	1	none	22	25A8	(B * 256 + A)/10	0-1000/ 0-2710	
Sec_Controller_Fault	Sec. Controller Fault Code	1	100	1	none	22	28B4	A	0-100/ 0-64	
Sec_Controller_Temp	Sec Controller Temp	-100	300	1	none	22	28A7	(B * 256 + A) / 10	-100-300 °C / FF9C-12C	
Sec_Motor_Temp	Sec Motor Temp	-100	300	1	none	22	28A0	(B * 256 + A) / 10	-100 to 300 °C / FF9C-12C	
Serial_Number	Serial Number	0	4294967295	1	none	22	26A1	(C * 65536) + (B * 256 + A)	0-4294967295/0-FFFFFFFF	
State_of_Charge	SOC %	0	100	1	none	22	25AF	A	0-100/ 0-64	
Tachometer	Tachometer	0	8000	1	none	22	25A5	(B * 256 + A)/100	0-8000/ 0-1F40	
Throttle_Command	Throttle Command	-100	100	1	none	22	25B0	(B * 256 + A)/327.67	-100 to 100%/ 8000 to 7FFF	
Throttle_Pot_Raw	Throttle Pot Raw	0	5.5	1	none	22	25B2	(B * 256 + A)/6553.5	0-5.5V/ 0-8CCC	
Time_Remaining	Time Remaining	0	32767	1	none	22	22B0	(B * 256 + A)	0-32767/ 0-7FFF	
Under_Voltage_Cutback	Under Voltage Cutback	0	100	1	none	22	25AC	(B * 256 + A) / 40.96	0 - 100%/ 0-64	
VCL_APP_VER	VCL APP VER	0	327.67	1	none	22	26A5	(B * 256 + A)/100	0-327.67/ 0-7FFF	
Vehicle_Odometer	Vehicle Odometer	0	4294967295	1	none	22	25AE	(C * 65536) + (B * 256 + A)	0-42949672.9/0-FFFFFFFF	
Vehicle_Speed	Vehicle Speed	0	200	1	none	22	25A4	(B * 256 + A)	0-32767/ 0-7FFF	
Vessel_Speed	MPH	0	600	1	none	22	22AF	(B * 256 + A)/10	0-32767/ 0-7FFF	
WPM_Filtered	WPM Filtered	0	32767	1	none	22	22AE	(B * 256 + A)/10	0-32767/ 0-7FFF	
WPM_Raw	WPM Raw	0	32767	1	none	22	22AD	(B * 256 + A)/10	0-32767/ 0-7FFF	