Hercules HC 6060-0000-00

The 6060 series Hercules HC builds upon the proven performance and reliability of the current Hercules 6000 series V-MUX® multiplex node by providing more robust I/O, increased connectivity options, and a lower price than the current Hercules node. V-MUX® is a vehicle multiplex system that offers tremendous flexibility to the OEM builder. Integrate standalone vehicle sub systems such as door interlocks, high idle control, voltage monitoring, and vehicle diagnostic troubleshooting. The Weldon System Designer™ software allows for easy configuration and programming of Hercules HC node, giving users flexibility and control to use any input or output the way they need.

- Operating Temperature -40c to 85c
- Voltage Range 9 to 32vdc
- Dimensions: 13.46” x 2.65” x 7.98”
- Weight: 5.9 Lbs. (2.67 kg)
- Rated to IP67
- Load Current Rating 120amps
- Standby Current 30mA
- VFD port connection
- USB programmable
- 12V and 24V capable
- 32 outputs
    - 16 high side rated at 13A each
    - 12 high side rated at 4A each
    - 4 low side rated at 4A each
- 20 Inputs
    - 16 Digital
    - 4 Analog or Digital
- Communication Bus RS-485 V-MUX
- RS-485 PODS Connection
- Dual CAN port connections

Mating Connectors:

- Connector A: DT06-08S
- Connector B: DT06-08S
- Connector C: DT06-08S
- Connector D: DT06-08S
- Connector E: DTM06-12S
- Connector F: DTM06-12S
- Connector G: DT06-4S
- Connector H: DTM06-6S
- Connector I: DTM06-4S

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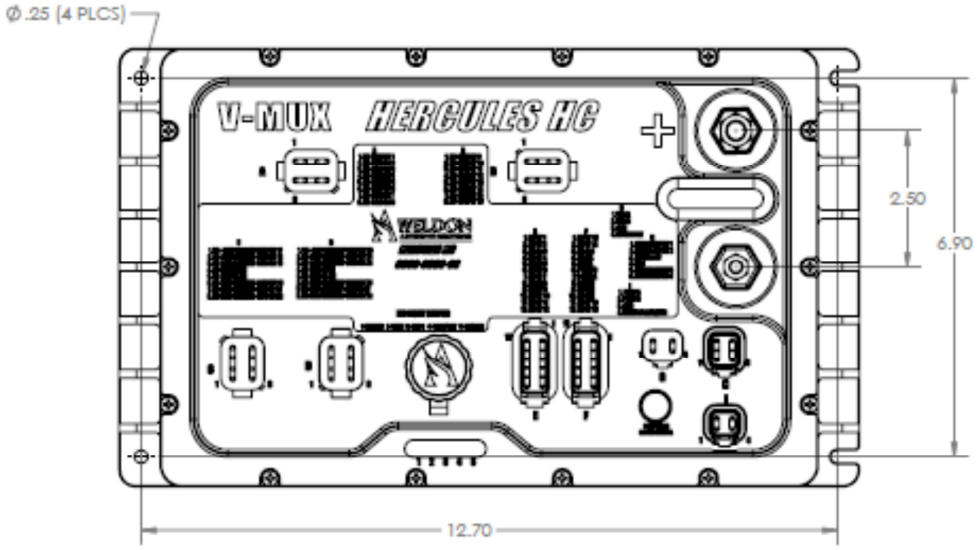
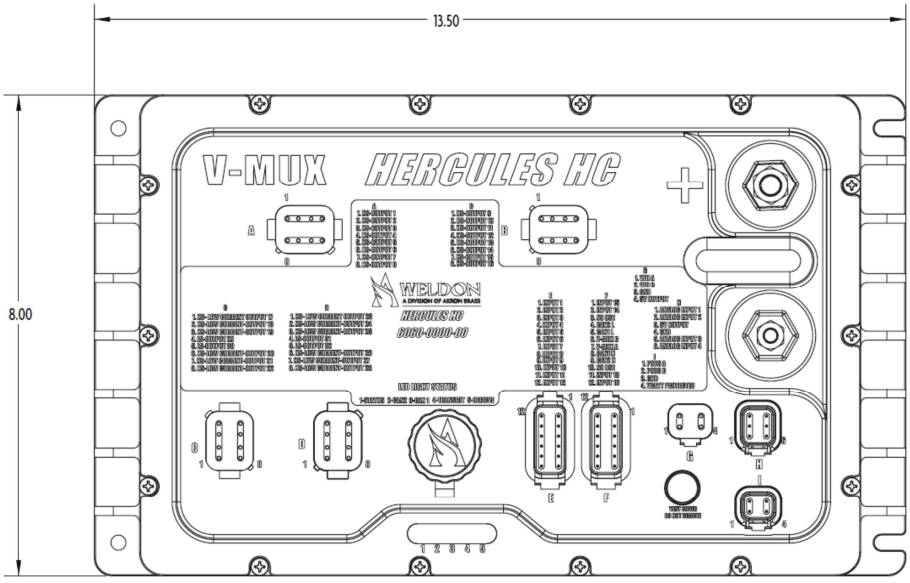
NOTES
1. THIS DRAWING IS FOR INSTALLATION PURPOSES ONLY
2. DIMENSIONS AND TOLERNACE ARE NOTED WITHIN DRAWING
3. INSTALLATION MUST BE PERFORMED BY APPROVED PERSONAL





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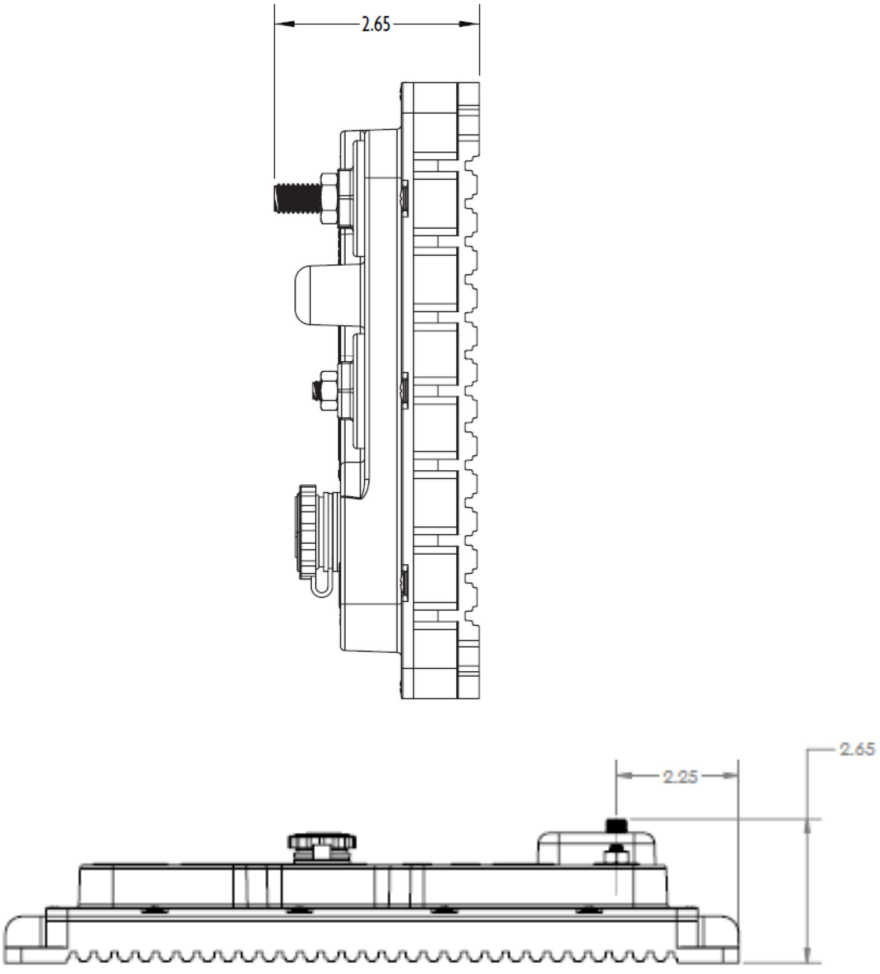

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Connector	Pin	Name
A	1	Pin1 HS-Output 1
	2	Pin2 HS-Output 2
	3	Pin3 HS-Output 3
	4	Pin4 HS-Output 4
	5	Pin5 HS-Output 5
	6	Pin6 HS-Output 6
	7	Pin7 HS-Output 7
	8	Pin8 HS-Output 8
B	1	Pin1 HS-Output 9
	2	Pin2 HS-Output 10
	3	Pin3 HS-Output 11
	4	Pin4 HS-Output 12
	5	Pin5 HS-Output 13
	6	Pin6 HS-Output 14
	7	Pin7 HS-Output 15
	8	Pin8 HS-Output 16
C	1	Pin1 HS-Low Current-Output 17
	2	Pin2 HS-Low Current-Output 18
	3	Pin3 HS-Low Current-Output 19
	4	Pin4 LS-Output 29
	5	Pin5 LS-Output 30
	6	Pin6 HS-Low Current-Output 20
	7	Pin7 HS-Low Current-Output 21
	8	Pin8 HS-Low Current-Output 22
D	1	Pin1 HS-Low Current-Output 23
	2	Pin2 HS-Low Current-Output 24
	3	Pin3 HS-Low Current-Output 25
	4	Pin4 LS-Output 31
	5	Pin5 LS-Output 32
	6	Pin6 HS-Low Current-Output 26
	7	Pin7 HS-Low Current-Output 27
	8	Pin8 HS-Low Current-Output 28

Connector	Pin	Name
F	1	Pin1 Input 15
	2	Pin2 Input 14
	3	Pin3 No Use
	4	Pin4 CAN2 L
	5	Pin5 CAN1 L
	6	Pin6 V-MUX B
	7	Pin7 V-MUX A
	8	Pin8 CAN1 H
	9	Pin9 CAN2 H
	10	Pin10 No Use
	11	Pin11 Input 13
	12	Pin12 Input 16
E	1	Pin1 Input 1
	2	Pin2 Input 2
	3	Pin3 Input 3
	4	Pin4 Input 4
	5	Pin5 Input 5
	6	Pin6 Input 6
	7	Pin7 Input 7
	8	Pin8 Input 8
	9	Pin9 Input 9
	10	Pin10 Input 10
	11	Pin11 Input 11
	12	Pin12 Input 12
G	1	Pin1 VFD A
	2	Pin2 VFD B
	3	Pin3 GND
	4	Pin4 5V Output
I	1	Pin1 PODS A
	2	Pin2 PODS B
	3	Pin3 GND
	4	Pin4 Vbatt Protected
H	1	Pin1 Analog Input 1
	2	Pin2 Analog Input 2
	3	Pin3 5V Output
	4	Pin4 GND
	5	Pin5 Analog Input 3
	6	Pin6 Analog Input 4

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Connector A			
Pin	Name	Polarity	Capacity
1	Output 1	+vBatt	13 Amps
2	Output 2	+vBatt	13 Amps
3	Output 3	+vBatt	13 Amps
4	Output 4	+vBatt	13 Amps
5	Output 5	+vBatt	13 Amps
6	Output 6	+vBatt	13 Amps
7	Output 7	+vBatt	13 Amps
8	Output 8	+vBatt	13 Amps

Connector B			
Pin	Name	Polarity	Capacity
1	Output 9	+vBatt	13 Amps
2	Output 10	+vBatt	13 Amps
3	Output 11	+vBatt	13 Amps
4	Output 12	+vBatt	13 Amps
5	Output 13	+vBatt	13 Amps
6	Output 14	+vBatt	13 Amps
7	Output 15	+vBatt	13 Amps
8	Output 16	+vBatt	13 Amps

Connector C			
Pin	Name	Polarity	Capacity
1	Output 17	+vBatt	4 Amps
2	Output 18	+vBatt	4 Amps
3	Output 19	+vBatt	4 Amps
4	Output 29	GND	4 Amps
5	Output 30	GND	4 Amps
6	Output 20	+vBatt	4 Amps
7	Output 21	+vBatt	4 Amps
8	Output 22	+vBatt	4 Amps

Connector D			
Pin	Name	Polarity	Capacity
1	Output 23	+vBatt	4 Amps
2	Output 24	+vBatt	4 Amps
3	Output 25	+vBatt	4 Amps
4	Output 31	GND	4 Amps
5	Output 32	GND	4 Amps
6	Output 26	+vBatt	4 Amps
7	Output 27	+vBatt	4 Amps
8	Output 28	+vBatt	4 Amps

Connector E			
Pin	Name	Polarity	Capacity
1	Input 1	Program +/-	Signal
2	Input 2	Program +/-	Signal
3	Input 3	Program +/-	Signal
4	Input 4	Program +/-	Signal
5	Input 5	Program +/-	Signal
6	Input 6	Program +/-	Signal
7	Input 7	Program +/-	Signal
8	Input 8	Program +/-	Signal
9	Input 9	Program +/-	Signal
10	Input 10	Program +/-	Signal
11	Input 11	Program +/-	Signal
12	Input 12	Program +/-	Signal

Connector F			
Pin	Name	Polarity	Capacity
1	Input 15	GND Only	Signal
2	Input 14	GND Only	Signal
3	Unused		
4	CAN 2 L	Communications	CAN 2 Low
5	CAN 1 L	Communications	CAN 1 Low
6	V-MUX B	Communications	V-MUX Comms B
7	V-MUX A	Communications	V-MUX Comms A
8	CAN 1 H	Communications	CAN 1 High
9	CAN 2 H	Communications	CAN 2 High
10	Unused		
11	Input 13	GND Only	Signal
12	Input 16	GND Only	Signal

Connector G		
Pin	Name	Notes
1	VFD A	VFD Communications
2	Unused	
3	VFD GND	VFD Ground
4	VFD 5V	VFD 5V

Connector I		
Pin	Name	Notes
1	PODS A	PODS Comms A
2	PODS B	PODS Comms B
3	PODS GND	PODS Ground
4	PODS vBatt	PODS 12v Source

Connector H		
Pin	Name	Notes
1	Input 17	Analog Sensor 1
2	Input 18	Analog Sensor 2
3	Analog 5V	Analog 5v Source
4	Analog GND	Analog Ground
5	Input 19	Analog Sensor 3
6	Input 20	Analog Sensor 4