

Murphy Powercore Model		TEC-10	MPC-10	MPC-20
<b>Display</b>		2.7 in./ 68 mm, WQVGA Monochrome HR-TFT (400 x 240)	2.7" WQVGA Monochrome HR-TFT 400x240	3.8" Monochrome LCD, Transflective, 320 X 240 QVGA with
<b>Keypad</b>		(11) Raised silicone keypads, tactile feedback, (1) Rotary switch, power on/off, (1) Push-switch (red), engine stop	10 Silicone Tactile Feedback Buttons	
<b>LED's</b>		Green (mode), Yellow (warning) and Red (shutdown)	(1) Red, Shutdown, (1) Amber, Warning, (1) Green, Auto Mode or Running	(1) Red, Shutdown, (1) Amber, Warning, (1) Green, Auto Mode
<b>Real Time</b>		with battery backup		
<b>Outputs</b>	<b>Low</b>	(2) Low-side FET (-DC), 1A	(2) Low-side (1A)	(2) 1A Max Low-side
	<b>High</b>	(2) High-side FET (+DC), 1A	(2) High-side	(2) 2A Max High-side
	<b>Relay</b>	(2) Relay, switched +DC, 10A	N/A	N/A
	<b>Relay Form</b>	(1) Relay, Form C (dry / volt-free), 10A	(3) Relays: 10A, SPDT, Form C (30 VDC @ 10A max.), 40A max aggregate @ 85C	(6) 10A Max Form C Relays
	<b>Alternator</b>	(1) Dedicated Alternator Excitation, +DC, 1A	(1) Dedicated Alternator Excite (provides Charge Fail Fault if unable to excite alternator)	N/A
	<b>5V</b>	N/A	N/A	(2) 200mA Max 5VDC
	<b>0-5V</b>	N/A	N/A	(1) Analog 0-5V
<b>Input</b>		(5) Digital, configurable (active on High, Low, Open)	(5) Digital, configurable (high/low)	(6) Digital, Configurable as Battery or Ground
		(3) Analog, configurable (4-20 mA, 0-5V, resistive or digital ground)	(3) Analog, configurable (4-20mA, 0-5V, resistive)	(8) Analog, Configurable as Resistive, 0-5VDC, 4-20mA or Digital Ground
		(1) Frequency, supporting: Magnetic pickup (30 Hz - 10 kHz, 2.0 VAC-120 VAC) and Engine Alternator (30 Hz - 10 kHz, 4.5 VRMS - 90 VRMS)	(1) Frequency, supporting Magnetic pickup (30Hz - 10kHz, 2.0VAC-120VAC) and Engine Alternator (30Hz - 10kHz, 4.5 VRMS - 90 VRMS)	(1) Frequency, (2Hz - 10kHz, 3.6VAC-120VAC)
<b>Communications</b>	<b>CAN</b>	(1) CAN: J1939		
	<b>RS485</b>	(1) RS485: Modbus RTU		
	<b>US</b>	No USB	(1) USB 2.0B. for Programming	
<b>Power</b>		8-32 VDC, reverse battery polarity and load dump protected		
<b>Total Current Consumption</b>		Power on in stopped state; 117 mA at 12 VDC. Power on in standby mode; 52 mA at 12 VDC.		18W Max without 2 2A High-sides, active, 146W Max with 2 2A Highsides
<b>Cranking Power</b>		0 VDC up to 50 mS (also good for brownout/blackout instances)		
<b>Dimensions mm H X W X D</b>		186.5 x 243.48 X 132.23	133.29 x 167.09 X 86.75	183.96 X 202.95 X 57.45
<b>Dimensions Inches H X W X D</b>		7.34 x 9.59 X 5.20	5.25 X 6.57 X 3.38	7.243 X 7.990 X 2.262
<b>Mass</b>		1.8 kg (4 lbs.)	0.5 kg (1lb. 1oz)	0.9kg (2.0 lbs)
<b>Operating Temperature</b>		-40°C to +85°C (-40°F to 185°F)		
<b>Storage Temperature</b>		-40°C to +85°C (-40°F to 185°F)		
<b>EMI/RFI</b>		SAE J1113		
<b>Shock</b>		± 50G in 3 axes		
<b>Vibration</b>		Random, 7.86 Grms (5-2000Hz), 3 axes		
<b>Sealing</b>		IP67	IP67 front and back, IP66 Panel Seal with Gasket	
<b>Case</b>		Polycarbonate		
<b>Mating Connector</b>		(1) 21 Position, Deutsch HDP26-24-21SE	Deutsch Wedge Lock W12S-P012	Delphi, SICMA 90 Position
		(1) 31 Position, Deutsch HDP26-24-31SE		