

Bill Of Materials for Capel_CHARGE_SCH

0 Modules

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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Sub-totals:

6 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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6	C1-C6	1u	CAPACITOR SMD12096
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Sub-totals:

12 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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8	R1-R4,R7-R10	0.03	RESISTOR SMD R2512 1W
1	R5	100K	RESISTOR SMD1206
1	R6	1K	RESISTOR SMD1206
2	R11-R12	0.2	POWER RESISTOR CA4200 10W

Sub-totals:

7 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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2	U1,U3	INA219 MIODULE	Measure high side voltage and DC current draw over I2C
1	U2	PC817	Optocoupler DIP4
2	U4,U6	LM35DT	Temperature sensor TO220
1	U5	LM358N	Dual Operation Amplifier DIP8
1	U7	PCF8574	I2C DRIVER

Sub-totals:

3 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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2	Q1-Q2	IRL2910	N-Channel MOSFET Transistor TO220
1	Q3	NTF3055L175	N-Channel MOSFET Transistor SOT223-4

Sub-totals:

13 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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1	F1	16A	FUSE 20mm+HOLDER
2	J1-J2	5202-03-N-02	THERMINAL 3PIN
1	J3	MKDSN3	THERMINAL 3PIN 5.08
1	J4	MKDSN2	THERMINAL 2PIN 5.08
1	LCD2	LCD 16X2	I2C LCD DISPLAY
1	NANO1	ARDUINO NANO V2	
6	SW1-SW6		TACTILE SWITCH B3F-40XX