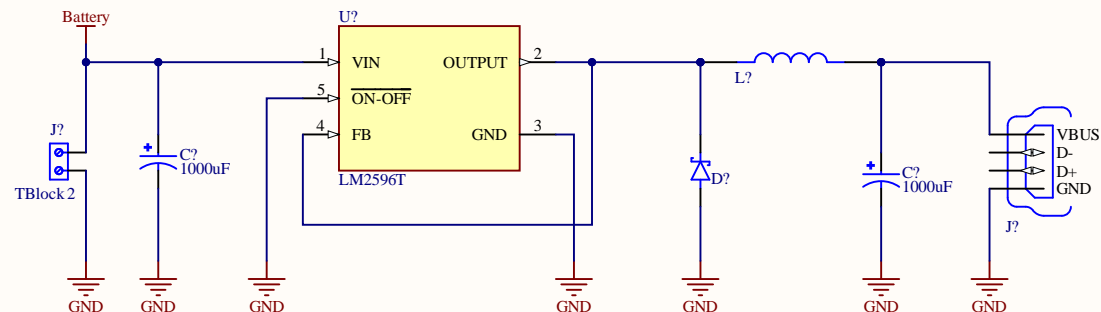
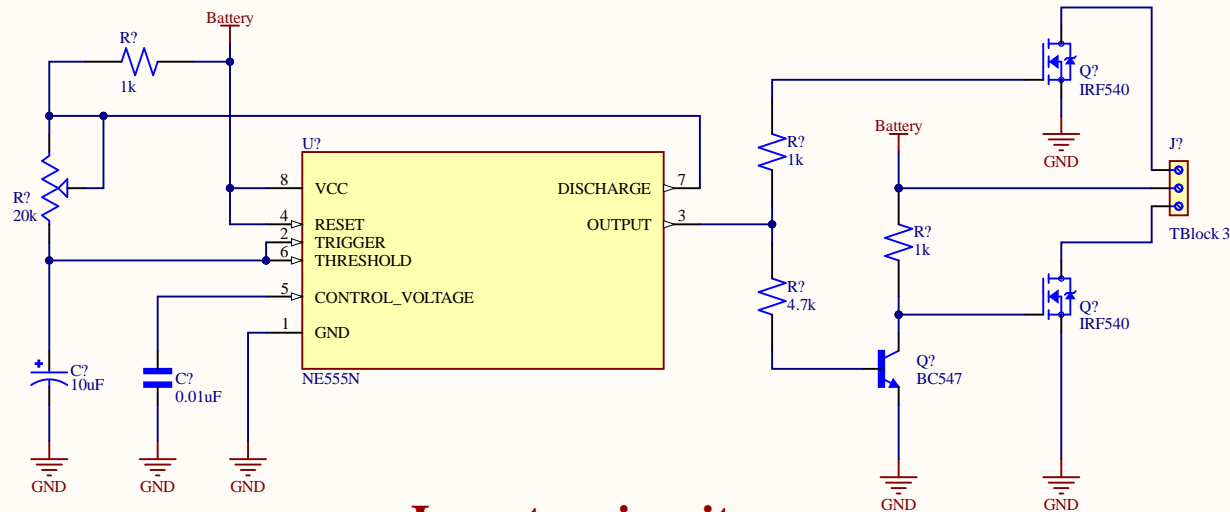


**Solar charger control**



**DC Phone charger circuit**



**Inverter circuit**

Title		
Size	Number	Revision
A4		
Date:	5-14-2023	Sheet of
File:	V:\Office\...\schematic.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
0.01uF	2200 pF ±10% 250V Ceramic Capacitor X7R Radial	C?	CAPRB500W50L450T3 00H550	Ceramic capacitor	1
10uF	FS- A	C?	CAPPRD500W50D500 H1100	Electrolytic capacitor	1
100uF	FS- A	C?	CAPPRD500W50D500 H1100	Electrolytic capacitor	1
1000uF	FS- A	C?	CAPPRD500W50D500 H1100	Electrolytic capacitor	2
1N4007	Diode Switching 1KV 1A 2-Pin DO-41	D?	DIOAD1060W80L520D 270	1N4007	1
1N5404	Diode Standard 400 V 3A Through Hole DO-201AD	D?	DIOAD1990W125L900 D530	Schroitic diode	1
L08R5000Q1	LED, Orange, Through Hole, T-1 3/4 (5mm), 30 mA, 2.1 V, 635 nm	D?	LEDRD254W57D500H1 070	LED	1
TBlock 2	2 Position Wire to Board Terminal Block Horizontal with Board 0.197_5.00mm_ Through Hole	J?	691111710002	Terminal Block - 2Pins	2
TBlock 3	5.08 MM TERMINAL BLOCK:	J?	Terminal block - 3Pins	3Pins Terminal block	1
USB-A1HSW6	USB - A Receptacle Connector 4 Position Through Hole, Right Angle	J?	OST_USB-A1HSW6	USB- A	1
FIRCH-3	INDUCTOR 3.60uH@8.1ADC ROD CORE/FIRCH-3 REV D	L?	IND_FIRCH-3	Inductor	1
BC547	<a href="https://priding.snapeda.com/parts/BC337-16%20A1/Taiwan%20 Semiconductor/view-part?ref=eda">Check availability</a> <a href="https://priding.snapeda.com/parts/BC337-16%20A1/Taiwan%20 Semiconductor/view-part?ref=eda">Check availability</a>	Q?	TO92250P510H770-3	BC547B	1
IRF540	N-Channel 100V 22A (Tq) 85W (Tc) Through Hole TO-220AB	Q?	TO254P1052X465X198 9-3	IRF540	2
0R2	(MFR-25FBF52-10K) 10.2 kOhm bei 1% 0.25W, 1/4W Durchbohrlochwiders tand Axial Metal Film	R?	RESAD1100W55L680D 260	Resistor (0.25W)	1
1k	(MFR-25FBF52-10K) 10.2 kOhm bei 1% 0.25W, 1/4W Durchbohrlochwiders tand Axial Metal Film	R?	RESAD1100W55L680D 260	Resistor (0.25W)	4
2k4	(MFR-25FBF52-10K) 10.2 kOhm bei 1% 0.25W, 1/4W Durchbohrlochwiders tand Axial Metal Film	R?	RESAD1100W55L680D 260	Resistor (0.25W)	1
4.7k	(MFR-25FBF52-10K) 10.2 kOhm bei 1% 0.25W, 1/4W Durchbohrlochwiders tand Axial Metal Film	R?	RESAD1100W55L680D 260	Resistor (0.25W)	1
20k	(3306F-1-10S) 1 MOhms 0.2W, 1/5W PC Pins Through Hole Trimmer Potentiometer Cermet 1 Turn Top Adjustment	R?	TRIM_3306F-1-10S	Potentiometer1	1
240	(MFR-25FBF52-10K) 10.2 kOhm bei 1% 0.25W, 1/4W Durchbohrlochwiders tand Axial Metal Film	R?	RESAD1100W55L680D 260	Resistor (0.25W)	1
LM317		U?	TO255P1020X450X196 8-3	LM317	1
LM2596T		U?	TO170P1016X470X209 2-5	LM2596T	1
NE555N	555 Type, Timer/Oscillator (Single) IC 500kHz 8-DIP	U?	DIP254P762X533-8	NE555N	1