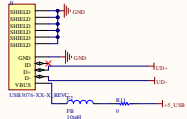
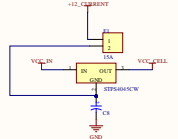


## POWER

usb

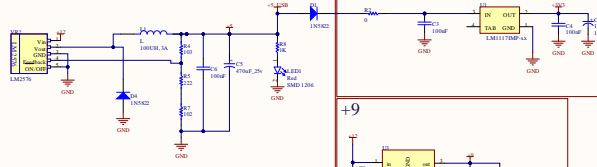


1- SWITCH BETWEEN POWER AND CELL.  
2- VOLTAGE OF CELL - VOLTAGE OF POWER.



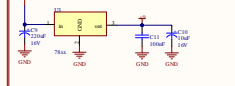
+5V

rotation of controller pot



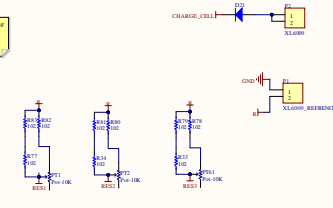
3V3

+9



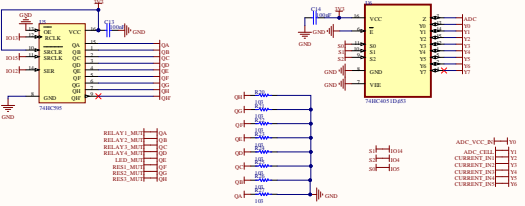
CHARGER

WE WANT TO SELECTING BETWEEN 5 VOLTAGE OF RESISTANCE RESULT THIS XL6009 ADJUST 5V5 TAGE

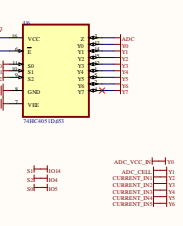


## Shift Reg

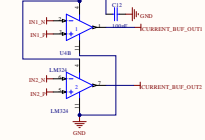
EXPORT PIN



EXPORT ADC

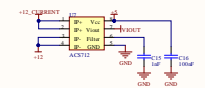


LM324

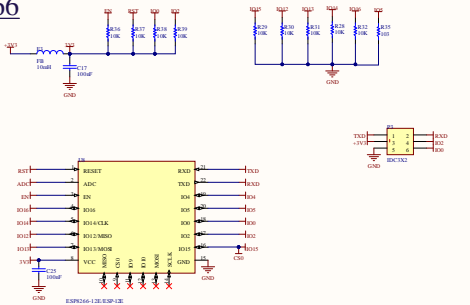


SENSOR

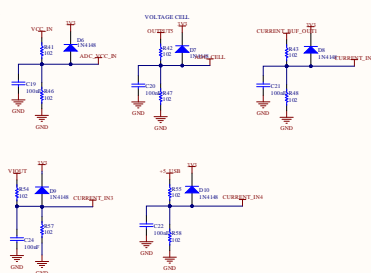
ADS



## ESP8266

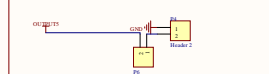


## ADC

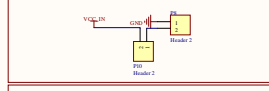


## OUT

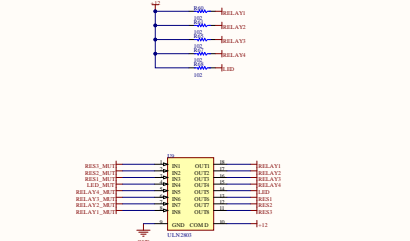
CELL



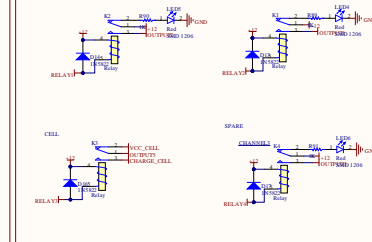
ADAPTOR



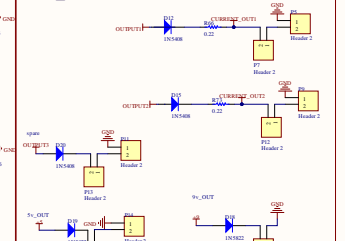
ULN



RELAY



OUT\_POWER



Comment	Description	Designator	Footprint	LibRef	Quantity
CH340	Circuit Breaker Magnetic 3Pole 40A 240VAC	1	SOIC16	CH340	1
1uF	Polar Capacitor	C2	cap 01	Cap-Polar	1
100nF	Bipolar Capacitor	C3, C4, C6, C11, C12, C13, C14, C16, C17, C18, C19, C20, C21, C22, C24, C25, C26, C27	SMD_CAP_0805	Cap-Bipolar	18
470uF_25v	Cap electrolytic radial	C5	Cap electrolytic radial 8x12-3.5	Cap electrolytic radial 10x21	1
2000uF_25v	Cap electrolytic radial	C8	Cap electrolytic radial 10x20-5	Cap electrolytic radial 10x21	1
220uF	Polar Capacitor	C9	cap 03	Cap-Polar	1
10uF	Polar Capacitor	C10	cap 01	Cap-Polar	1
1nF	Bipolar Capacitor	C15	SMD_CAP_0805	Cap-Bipolar	1
22pF	Bipolar Capacitor	C28, C29	SMD_CAP_0805	Cap-Bipolar	2
12M	Crystal	cryst01	Crystal SMD	CRYSTAL	1
1N5822	High Conductance Fast Diode	D1, D4, D13, D14, D16, D17, D18, D19	Diode 1N4007 SMD	Diode 1N	8
1N4148	High Conductance Fast Diode	D5, D6, D7, D8, D9, D10	LL4148	Diode 1N4148	6
1N5408	3 Amp Medium Power Silicon Rectifier Diode	D12, D15, D20	Diode 1N5819	Diode 1N5408	3
	3 Amp Medium Power Silicon Rectifier Diode	D21	Diode 1N5819	Diode 1N5408	1
15A	Header, 2-Pin	F1	HDR1X2	Header 2	1
FB	Inductor	F2, F3	FB1206	Inductor	2
USB3076-XX-X_REV_C	USB - micro B USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle: Through Hole	J1	GCT_USB3076-XX- X_REV_C	USB3076-XX-X_REV_C	1
Relay	Relay_SPDT POWER NEEDLE	K1, K2, K3, K4	Relay 15.40x12.10x13.10	RELAY General	4
L		L1	Toroidal Inductor Coil	Inductor-100uH-3A- Toroidal Coil	1
Red	LED	LED1	LED SMD 1206	LED	1
	LED	LED4, LED5, LED6	LED SMD 1206	LED	3
Header 2	Header, 2-Pin	LED_EXT2, LED_OUT1, LED_OUT2, LED_OUT3, LED_OUT4, LED_OUT5, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P16, P17	HDR1X2	Header 2	19
XL6009 REFERENCE	Header, 2-Pin	P1	HDR1X2	Header 2	1
XL6009	Header, 2-Pin	P2	HDR1X2	Header 2	1
IDC3X2	IDC, 6-Pin, Dual row	P3	IDC_2X3	IDC 3X2	1
Pot-10K		PT1, PT2, PT61	Square	resistor-Pot-10K	3
2N7002		Q2, Q3	SO123_BEC_M	2N7002	2
		Q4	SO123_BEC_M	2N7002	1
0	Resistor	R2, R11, R74, R75	RES 0805 (2012X06L)	Resistor	4
103	Resistor	R4, R21, R22, R23, R24, R25, R26, R27, R35, R64, R69	RES 0805 (2012X06L)	Resistor	11
222	Resistor	R5	RES 0805 (2012X06L)	Resistor	1
102	Resistor	R7, R20, R23, R34, R40, R41, R42, R43, R44, R46, R47, R48, R49, R50, R54, R55, R57, R58, R60, R61, R65, R67, R68	RES 0805 (2012X06L)	Resistor	23
1K	Resistor	R8	RES 0805 (2012X06L)	Resistor	1
22R	Resistor	R9, R10	RES 0805 (2012X06L)	Resistor	2
104	Resistor	R12, R13, R14, R15, R16, R17, R18, R19	RES 0805 (2012X06L)	Resistor	8
10K	Resistor	R28, R29, R30, R31, R32, R36, R37, R38, R39	RES 0805 (2012X06L)	Resistor	9
0.22	Resistor	R66, R73	Res-(5/1)-Stand	Resistor	2
	Resistor	R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91	RES 0805 (2012X06L)	Resistor	15
	PIEZO BUZZER ACTIVE	SP1	BUZZER 7.62mm DC	PIEZO BUZZER	1
		STPS4045CW	TO-220	LF33_DIP	1
LM1117MP-x.x	x.x Volt, 800mA Low- Dropout Linear Regulator, 4-pin SOT- 223	U1	MP04A_N	LM1117MP-x.x	1
78xx		U3	To-220	7805	1
LM324	Quad Low-Power Operational Amplifier	U4	SO-14	LM324-SMD	1
74HC595	8 Bit Shift Register with Output Latches (3 STATE)	U5	SO16_N	74HC595 SMD	1
74HC4051D.653	1 Circuit IC Switch 8:1 120Ohm 16-SO	U6	SOIC127P600X175- 16N	74HC4051D.653	1
ACS712		U7	ACS712	ACS712	1
ESP8266-12E/ESP-12E	This WiFi module has a 32-bit MCU micro and clock speeds supporting 80 MHz or 160 MHz. Supports the RTOS and integrated Wi-Fi MAC/BB/RF/PA/LNA, and has an on-board antenna.	U8	XCVR_ESP8266- 12E/ESP-12E	ESP8266-12E/ESP-12E	1
ULN2803	High-Voltage, High- Current Darlington Array	U9	SOW-18	ULN2803_SMD	1
LM2576	LM2576 adjustable output, 7-60V Input, 3A	VR7	TO-220-5	LM2576-DIP	1