MCU

EEPROM

RTC

CONNECTORS

LCD5110

VOLTAGE CHANNEL

VREF GENERATORS

CURRENT CHANNEL
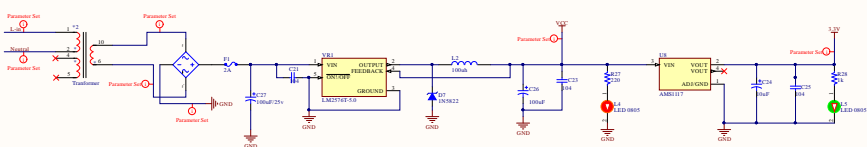
POWER
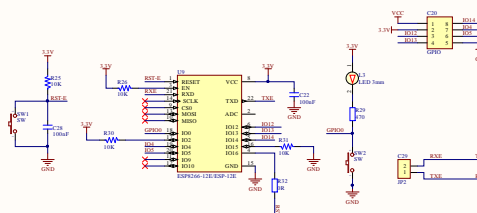
ESP8266-12E

MICRO SDCARD

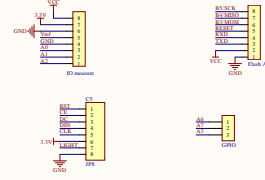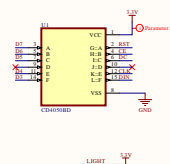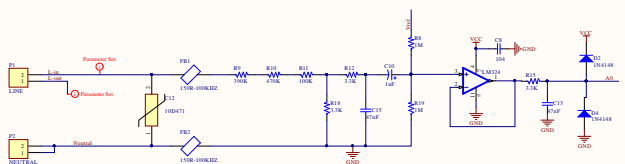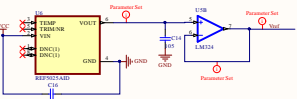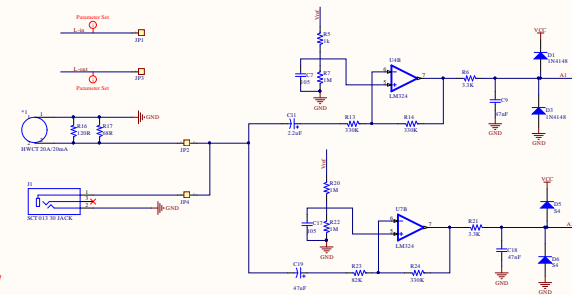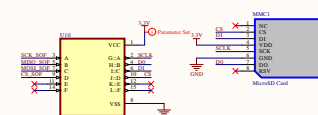| Comment	Description	Designator	Footprint	LibRef	Quantity
HWCT 20A/20mA	Current transformer	*1	5A/5mA	Current transformer	1
Tranformer	EE13	*2	Tranformer 127	Tranformer	1
LM324	General Purpose Am	1, U4, U5, U7	SOIC127P600X175-1	LM324	4
ATMEGA328	atmega1	atmega1	atmega328	Component_2	1
DB107S	Bridge Rectifier Singl	BR1	DIOB_DB107S	DB107S	1
PIN 3V	Battery 3VDC	BT1	PIN 3V	PIN 3V	1
10uF	Dán	C1	tu nhom 10 (g)	Tu Nhom 330uF 50V	1
104	Capacitor	C2, C6, C8, C21, C23	C0805	CapSMD	6
22pF	Capacitor	C3, C4	C0805	CapSMD	2
JP8	WR-PHD 2.54 mm An	C5	JP8-C1T	JP8	1
105	Capacitor	C7, C14, C16, C17	C0805	CapSMD	4
47nF	Capacitor	C9, C13, C15, C18	C0805	CapSMD	4
Cap Pol3	Polarized Capacitor	C10, C11, C19, C24,	1812	Cap Pol3	6
10D471		C12	Tu gom	varistor	1
GPIO	WR-PHD 2.54 mm Du	C20	JP4-D2T	JP4x2	1
100nF	Cap SMD 0805	C22, C28	CN-SMD-0805	CM	1
JP2	WR-PHD 2.54 mm An	C29	JP2-CLOSED	JP2	1
104	Dán	C30, C31, C32	tu 0805	Tu 0805 101 50V 20%	3
1N4148	Dán	D1, D2, D3, D4	DIODE SOD-123	Diode S4	4
S4	Dán	D5, D6	DIODE SOD-123	Diode S4	2
1N5822	Dán	D7	DIODE ZENNER SMD	Diode Zener 5.1V	1
DHT22		DHT1	DHT22	DHT22	1
2A	Fuse	F1	FUSE 1206 3216N	Fuse_2	1
150R-100KHZ	Ferrite Beads Multi-L	FB1, FB2	BEADC1608X95N	BK1608LL560-T	2
Flash AVR	Cắm	H1	Header DT 8P_2.54	Header 8P 2.54 Duc	1
IO measure	Cắm	H2	Header DT 8P_2.54	Header 8P 2.54 Duc	1
GPIO	Cắm	H3	Header DT 3P_2.54	Header 3P 2.54 Duc	1
Header 4P 2.54 Duc	Cắm	H4	Header DT 4P_2.54	Header 4P 2.54 Duc	1
Header 2P 2.54 Duc	Cắm	H5	Header DT 2P_2.54	Header 2P 2.54 Duc	1
SCT 013 30 JACK	3.5 mm, Stereo, Righ	J1	CUI_SJ1-3533N	SJ1-3533N	1
Jumper 1	Jumper 1	JP1, JP3	HEAD1	JP 1	2
Jumper 2	Jumper 2	JP2, JP4	JP2_1	JP 2	2
LED 0805	Dán	L1	LED-0805-Yellow	LED 0805 Vang	1
100uh	IND-FIXED 33uH 08	L2	IND-CD54	CD54_33U	1
LED 3mm	Cắm	L3	LED-3MM-WHITE	LED 3mm Trang	1
LED 0805	Dán	L4	LED-0805-Red	LED 0805 Do	1
LED 0805	Dán	L5	LED-0805-Green	LED 0805 Xanh La	1
MicroSD Card		MMC1	MicroSD-2	MicroSD Card	1
LINE	Header, 2-Pin, pitch	P1	KF127_2P	KF127 2P	1
NEUTRAL	Header, 2-Pin, pitch	P2	KF127_2P	KF127 2P	1
10K	Resistor 1/4W	R1, R2, R4, R25, R26	SM-0805	Res	7
330	Resistor 1/4W	R3	SM-0805	Res	1
1k	Resistor 1/4W	R5, R28	SM-0805	Res	2
3.3K	Resistor 1/4W	R6, R12, R15, R18, R	SM-0805	Res	5
1M	Resistor 1/4W	R7, R8, R19, R20, R2	SM-0805	Res	5
390K	Resistor 1/4W	R9	SM-0805	Res	1
470K	Resistor 1/4W	R10	SM-0805	Res	1
100K	Resistor 1/4W	R11	SM-0805	Res	1
330K	Resistor 1/4W	R13, R14, R24	SM-0805	Res	3
120R	Resistor 1/4W	R16	SM-0805	Res	1
68R	Resistor 1/4W	R17	SM-0805	Res	1
82K	Resistor 1/4W	R23	SM-0805	Res	1
220	Resistor 1/4W	R27	SM-0805	Res	1
470	Dán	R29	tro smd 0805	Tro 0805 1% 2k	1
0R	Dán	R32	tro smd 0603	Tro 0603 1% 0R	1
10K	Dán	R33	tro smd 0805	Tro 0805 1% 1k	1
1K	Dán	R34	tro smd 0805	Tro 0805 1% 1k	1
SW	Switch button 4 pin	RESET1	SW4	SW4	1
SW	Switch button 2 pin	SW1, SW2	SW1-SMD	SW2	2
CD4050BD	CMOS Hex Non-Inver	U1, U10	SOIC127P600X175-1	CD4050BD	2
DS1307Z	Real Time Clock_RTC	U2	SOIC127P600X175-8	DS1307Z	1
AT24C08BN-SH-B	EEPROM Memory IC	U3	SOIC127P600X175-8	AT24C08BN-SH-B	1
REF5025AID	2.5-V, 3-Vpp/V noise	U6	SOIC127P599X175-8	REF5025AID	1
AMS1117	UNO PLUS Arduino R	U8	SOT229P700X180-4N	AMS1117	1
ESP8266-12E/ESP-12	This WiFi module has	U9	XCVR_ESP8266-12E/	ESP8266-12E/ESP-12	1
LM393D	Dual differential com	U11	SOIC127P599X175-8	LM393D	1
LM2576T-5.0	Conv DC-DC 4V to 40V	VR1	TO170P1067X483X1	LM2576T-5.0	1
10K	Var Resistor	VR2	VOL_1	Var Resistor	1
32.768KHz	CRYSTAL 32.7680KH	X1	Crystal_ABS07_SMD	ABS07-32.768KHZ-T	1
16Mhz	Crystal, 32.768 KHz,	X2	XTAL-RU49/4	XT2	1