

BOM for Arduino Solar Charge Controller V2.02

Components Price

SL No	Part Name	Designator	Quantity	Supplier	Link	Unit Price (USD)	Total (USD)
1	Arduino Nano	U1	1	Aliexpress	https://bit.ly/2WP67MK	2.99	2.99
2	IRF4905	Q1 ,Q2	2	Aliexpress	https://bit.ly/2UM4BZ5	0.142	0.284
3	MBR2045	D2	1	Aliexpress	https://bit.ly/33T98NB	0.124	0.124
4	Buck Converter-MP2307	X1	1	Aliexpress	https://bit.ly/3awo2M7	0.289	0.289
5	Current Sensor - ACS712	U2, U3	2	Aliexpress	https://bit.ly/3bzHs2F	1.08	2.16
6	TVS diode- P6KE36CA	D1	1	Aliexpress	https://bit.ly/2wMXl7k	0.032	0.032
7	Transistors - 2N3904	T1, T2	2	Aliexpress	https://bit.ly/3dE8APT	0.0077	0.0154
8	Resistors -100K	R1, R3	2	Aliexpress	https://bit.ly/3dGMw7i	0.008	0.016
9	Resistors-20K	R2, R4	2	Aliexpress	https://bit.ly/3dGMw7i	0.008	0.016
10	Resistors-10K	R6, R8	2	Aliexpress	https://bit.ly/3dGMw7i	0.008	0.016
11	Resistors-1K	R5, R7	2	Aliexpress	https://bit.ly/3dGMw7i	0.008	0.016
12	Resistors-4.7K	R16	1	Aliexpress	https://bit.ly/3dGMw7i	0.008	0.008
13	Resistors- 330R	R9-R15	3	Aliexpress	https://bit.ly/3dGMw7i	0.008	0.024
14	Capacitors - 0.1uF	C1, C2	2	Aliexpress	https://bit.ly/39u4KWz	0.0105	0.021
15	RGB LED	LED2	1	Aliexpress	https://bit.ly/2Jv87lb	0.0207	0.0207
16	Bi-Color LED	LED1, LED3	2	Aliexpress	https://bit.ly/3bvr5US	0.0154	0.0308
17	Heat Sinks	U6, U7, U8	3	Aliexpress	https://bit.ly/2WRCgmQ	0.112	0.336
18	Fuse Holder	F1	1	Aliexpress	https://bit.ly/2ULuhoF	0.135	0.135
19	Push Button	RST	1	Aliexpress	https://bit.ly/2JrQMdc	0.0295	0.0295
20	Screw terminal 1x6 pin	P4	1	Aliexpress	https://bit.ly/3dDOJR5	0.93	0.93
21	Screw terminal 1x3 pin	I2C LCD	1	Aliexpress	https://bit.ly/3dEaXSN	0.099	0.099
22	Straight Headers	Headers	2	Aliexpress	https://bit.ly/2ydxpSz	0.093	0.186
23	USB Socket	USB	1	Aliexpress	https://bit.ly/2QQoHQP	0.047	0.047

Total Components Price (USD) : 7.8254

PCB Price

1	PCB V2.02	PCB	1	PCBWay	https://bit.ly/3dzk9bj	1	1.00
Total PCB Price (USD) :							1.00

Others Component Price							
1	Temp Sensor - DS18B20		1	Aliexpress	https://bit.ly/2WSMUK7	1.41	1.41
2	20x4 I2C LCD		1	Aliexpress	https://bit.ly/2UNg2zO	3.31	3.31
3	Jumper Wires/Wires		1	Aliexpress	https://bit.ly/33U3St7	0.45	0.45
4	PCB Standoffs M/F		4	Aliexpress	https://bit.ly/2JoMJhx	0.132	0.528
5	Heat Sink Pads		3	Aliexpress	https://bit.ly/3aua5hG	0.009	0.027
						Total Others Component Price (USD) :	6.03
						Total Project Cost (USD) :	14.86