

Charging Station Components	Link to Product	Quantity	Unit Cost	Sum Cost	
Box with DIN rail		1	32	32	
RCBO	https://ecoharmony.co.uk/collecti	1	61	61	
Arduino Uno	https://store.arduino.cc/products	1	30	30	
Charging Station shield for Arduino		1	30	30	
DIN Rail adapter for Arduino Uno		1	5	5	
Contacto 1P, 20 A	https://www.reichelt.nl/nl/nl/insta	1	22	22	
DIN Rail Power Supply +12 V	https://www.reichelt.nl/nl/nl/schal	1	12	12	
Wire 2.5 mm2, blue	https://www.elektramat.nl/heluka	1	0.5	0.5	
Wire 2.5 mm2, brown	https://www.elektramat.nl/heluka	1	0.5	0.5	
Wire 2.5 mm2, yellow/green	https://www.elektramat.nl/heluka	1	0.5	0.5	
Ferrule terminals	https://www.elektramat.nl/weidm	25	0.1	2.5	
DIN Connectors PE	https://www.elektramat.nl/phoeni	2	4	8	
DIN Connector Blue	https://www.elektramat.nl/phoeni	2	1.2	2.4	
DIN Connector Grey	https://www.elektramat.nl/phoeni	2	1.2	2.4	
Shunt for DIN connectors	https://www.elektramat.nl/phoeni	2	0.5	1	
End cap for DIN connectors	https://www.elektramat.nl/phoeni	2	0.6	1.2	
Grommet M20	https://www.elektramat.nl/jacob-v	2	0.6	1.2	
Grommet nut M20	https://www.elektramat.nl/jacob-v	2	0.1	0.2	
Installation cable 3G2.5	https://www.elektramat.nl/neopre	3	2.4	7.2	
Type-2 vehicle connector with cable	https://evchargeplus.com/product	1	170	170	
			Total	389.6	
Arduino Uno Shield PCB Components (not counting the PCB itself)					
Component	Reference in PCB	Link to Product	Quantity	Unit Cost	Sum Cost
Operational Amplifier TLV1805DBVR	U1	https://nl.mouser.com/ProductDetail	1	0.81	0.81
Power Supply NKE1212SC	U2	https://www.reichelt.nl/nl/nl/index.t	1	6.2	6.2
0.1 uF Capacitors	C1,C3,C5,C7,C8	https://nl.mouser.com/ProductDetail	5	0.093	0.465
10 uF Capacitors	C4,C6	https://nl.mouser.com/ProductDetail	2	0.12	0.24
100 uF Capacitor	C2	https://nl.mouser.com/ProductDetail	1	0.13	0.13
LEDs	D1,D2,D3,D4	https://nl.mouser.com/ProductDetail	4	0.2	0.8
Transistor	Q1	https://nl.mouser.com/ProductDetail	1	0.4	0.4
Relays	K1	https://nl.mouser.com/ProductDetail	1	1.66	1.66
Power Connectors	J1,J2,J3	https://nl.mouser.com/ProductDetail	3	1.31	3.93
Connector, serial coms	J4	https://nl.mouser.com/ProductDetail	1	0.31	0.31
Resistors 1k	R2,R5,R12,R13,R14,R15	https://nl.mouser.com/ProductDetail	6	0.09	0.54
Resistors 100k	R3,R4,R8	https://nl.mouser.com/ProductDetail	3	0.09	0.27
Resistor 300k	R6	https://nl.mouser.com/ProductDetail	1	0.09	0.09
Resistor 220k	R7	https://nl.mouser.com/ProductDetail	1	0.09	0.09
Arduino header 8p	Arduino Uno	https://nl.mouser.com/ProductDetail	2	0.15	0.3
Arduino header 6p	Arduino Uno	https://nl.mouser.com/ProductDetail	1	0.16	0.16
Arduino header 10p	Arduino Uno	https://nl.mouser.com/ProductDetail	1	0.2	0.2
				Total	16.595