Part Name	Reference #	Part Number	Info	Quantity	Unit Price	Vendor
Current Sensor	1	ACS712ELCTR-05B-T	SENSOR CURRENT HALL 5A AC/DC	2	$4.56	https://www.digikey.com/product-detail/en/alleg
AC Outlet	2	CAT # ACS-31	15 AMP GROUNDED AC OUTLET WITH WIRES, NEMA 5-15	3	$1.85	https://www.allelectronics.com/item/acs-31/15-a
Raspberry Pi 0 W	3	PRODUCT ID: 3400	Raspberry Pi 0 with WiFi and Bluetooth	1	$10.00	https://www.adafruit.com/product/3400
Switch/Power Socket	4	IEC320	5A fuse enclosure (10A switch)	1	$10.99	https://www.amazon.com/Antrader-Module-Soc
IEC Power Cord	5	IEC (SPH-386)	Standard Power Cord	1	$5.99	https://www.amazon.com/AmazonBasics-Powe
Relay	6	Z3116-ND	RELAY GEN PURPOSE SPST 10A 5V	2	$1.41	https://www.digikey.com/product-detail/en/omro
LEDs	7	WS2812 5050 RGB LED	8X5050 LED PCB	1	$8.98	https://www.amazon.com/gp/product/B00IEDH2
MIC Sensor	8	1063	Adafruit Electret Microphone Amplifier with Auto Gain Control	1	$10.19	https://www.adafruit.com/product/1713
Arduino Uno	9	ATMEGA16U2	Arduino Uno R3 for analog data	1	$11.86	https://www.amazon.com/Elegoo-EL-CB-001-A
AC LED sockets	10	70-71PLE262P-BK	Sockets for 100W lamps	1	$6.99	https://www.amazon.com/gp/product/B01N6JNI
Heat shrink tubing	11	610731355579	. Heat Shrink tubing for all wire solder joints	1	$6.99	https://www.amazon.com/gp/product/B01MFA3
M3 Standoffs	12	XHHD17009	mounting points for all boards	1	11.99	https://www.amazon.com/gp/product/B06XQ33
PCB	13	--	Holds current sensors, relays, and all connections of AC lines	1	--	--
Jumper wires	14	EL-CP-004	Used to interface PCB with microcontrollers (120 piece)	1	$6.98	https://www.amazon.com/Elegoo-EL-CP-004-M
Hatchbox PLA, Gray	15	3D PLA-1KG1.75-CG6C	Material for enclosure	1	$19.99	https://www.amazon.com/gp/product/B015I1CY
USB to micro USB	16	FBA_10396	Connect pi to arduino	1	$5.99	https://www.amazon.com/gp/product/B00LN3L0
2.5A USB PSU	17	LYSB01FM0XOH8-ELECTRNC	Power Raspberry pi	1	$10.99	https://www.amazon.com/gp/product/B01FM0X
USB A to USB B	18	B079ZP65SN	Connect pi to arduino	1	$5.89	https://www.amazon.com/gp/product/B079ZP65
Screw Terminal Block	19	B01F7KOM10	used for all AC connections	1	$11.68	https://www.amazon.com/gp/product/B01F7KO