



Date: 4/30/2025

Page No.	1	Schematic Name	Schematic.SchDoc	Check(1) HW Eng.	Check(2) SW Eng.	Approval(1)	Approval(2)	Company	*	
Rev. No.		Designed By	Omar Faruk Badhon					Address	*	
								Dept. Name	R&D	

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Comment	Description	Designator	Footprint	LibRef	Quantity
1uF	25V 1uF X5R ±10% 0805 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS	C1	C0805	GRM216R61E105KA12 D	1
10uF	35V 10uF X5R ±10% 1206 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS	C2, C3	C1206	GRT31CR6VA106KE01 L	2
100uF	100uF 25V 130mA@120Hz ±20% SMD,DBXL 10.2mm Aluminum Electrolytic Capacitors - SMD ROHS	C4	CAP-SMD_BD8.0-L8.3- W8.3-LS9.5-FD	EEHC1E101P	1
1N4148WS-7-F	75V Independent Type 1.25V@150mA 4ns 150mA SOD-323 Switching Diodes ROHS	D1, D5	SOD-323_L1.8-W1.3- LS2.5-RD	1N4148WS-7-F	2
MMSZ5234BT1G	Independent Type 5.89V-6.51V 500mW 6.2V SOD-123 Zener Diodes ROHS	D2	SOD-123_L2.8-W1.8- LS3.7-RD	MMSZ5234BT1G	1
V8PAL45-M3/I	45V 4A 570mV@8A DO-221BC(SMPA) Schottky Diodes ROHS	D3, D4	DO-221BC_L4.3-W2.7- LS5.3-RD	V8PAL45-M3/I	2
0437003.WR	50A SMD Fuse 3A 32V 1206 Disposable fuses ROHS	F1	F1206	Fuse	1
22 µH	WE-PD SMT Power Inductor, size 7345R, 22 µH, 1.41 A, 110 mΩ	L1	WE-PD_7345R	7447779122	1
LTST-C170KRKT	20mA 54mcd Colorless Transparent Lens -55°C--+85°C 631nm Red 130° 75mW 2V 0805 LED Indication - Discrete ROHS	LED1, LED2	LED0805-R-RD	LTST-C170KRKT	2
WJ128V-5.0-2P	1x2P 20A - 40°C--+105°C 250V Green 12-22 Direct Insert 5mm 2.5 1 2 Plugin,P=5mm Screw Terminal Blocks ROHS	P1, P2	CONN-TH_2P- P5.00_WJ128V-5.0-2P	WJ128V-5.0-2P	2
562kΩ	0.125W Thick Film Resistors ±100ppm/°C ±1% 562kΩ 0805 Chip Resistor - Surface Mount ROHS	R1	R0805	ERJ6ENF5623V	1
0.068Ω	0.125W Thick Film Resistors 300V ±600ppm/°C ±5% 0.068Ω 0805 Chip Resistor - Surface Mount ROHS	R2	R0805	FRL0805JR068TS	1
309kΩ	309kΩ 0805 Chip Resistor 0.125W Thick Film Resistors ±100ppm/°C ±1% - Surface Mount ROHS	R3	R0805	ERJ6ENF3093V	1
10kΩ	10kΩ 0805 Chip Resistor 0.2W Thick Film Resistors 200V ±50ppm/°C ±0.1% - Surface Mount ROHS	R4, R5	R0805	ERJPB6B1002V	2
100kΩ	100kΩ 0805 Chip Resistor 0.125W Thick Film Resistors ±100ppm/°C ±1% - Surface Mount ROHS	R6, R7	R0805	ERJ6ENF1003V	2
1MΩ	1MΩ 0805 Chip Resistor 0.5W Thick Film Resistors ±5% ±200ppm/°C - Surface Mount ROHS	R8	R0805	ERJP06J105V	1
174kΩ	174kΩ 0805 Chip Resistor 0.125W Thick Film Resistors ±100ppm/°C ±1% - Surface Mount ROHS	R9	R0805	ERJ6ENF1743V	1
LT3652EDD#PBF	4.95V -32V Multi- Chemical 1-4 A DFN- 12(3x3) Battery Management ROHS	U1	DFN-12_L3.0-W3.0- P0.50-LS3.0-BL-EP	LT3652EDD#PBF	1