4 AWG	2.0 ft
Auxiliary Battery:1:Power	RD Auxiliary Battery Disconnect:1:In

Additional components

2 x #1 (5/16-3/8" Ring Terminal (4 AWG))

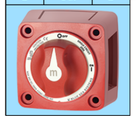
Auxiliary Battery	
Power	1
Ground	2

Additional components

1 x #8 (High-Amp Fuse)

1 x #9 (High-Amp Fuse Holder)

Auxiliary Battery Disconnect		
1	In	1
2	Out	2



4 AWG	2.0 ft
Auxiliary Battery:2:Ground	BK Current Shunt:1:In

Additional components

2 x #1 (5/16-3/8" Ring Terminal (4 AWG))

Current Shunt		
1	In	1
2	Out	2
3	Monitor 1	3
4	Monitor 2	4

4 AWG	5.0 ft
Auxiliary Battery Disconnect:2:Out	RD Auxiliary Power Distribution System:1:Auxiliary Battery Positive
Current Shunt:2:Out	BK Auxiliary Power Distribution System:2:Auxiliary Battery Negative

Additional components

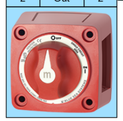
2 x #1 (5/16-3/8" Ring Terminal (4 AWG))

18 AWG	5.0 ft
Current Shunt:3:Monitor 1	YE Battery Monitor:3:Shunt 1
Current Shunt:4:Monitor 2	BU Battery Monitor:4:Shunt 2

Battery Monitor	
1	Power
2	Ground
3	Shunt 1
4	Shunt 2

14 AWG	5.0 ft
Auxiliary Power Distribution System:13:Output 1 Power	RD Battery Monitor:1:Power
Auxiliary Power Distribution System:14:Output 1 Ground	BK Battery Monitor:2:Ground

Start Battery Disconnect		
1	In	1
2	Out	2



4 AWG	2.0 ft
Start Battery:1:Power	RD Start Battery Disconnect:1:In

Additional components

2 x #1 (5/16-3/8" Ring Terminal (4 AWG))

Start Battery	
Power	1
Ground	2

Additional components

1 x #8 (High-Amp Fuse)

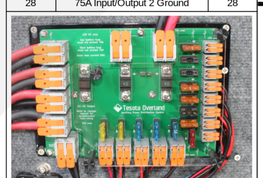
1 x #9 (High-Amp Fuse Holder)

4 AWG	25.0 ft
Start Battery Disconnect:2:Out	RD Auxiliary Power Distribution System:3:Start Battery Positive
Start Battery:2:Ground	BK Auxiliary Power Distribution System:4:Start Battery Negative

Additional components

2 x #1 (5/16-3/8" Ring Terminal (4 AWG))

Auxiliary Power Distribution System		
1	Auxiliary Battery Positive	1
2	Auxiliary Battery Negative	2
3	Start Battery Positive	3
4	Start Battery Negative	4
5	DC-DC Start Battery	5
7	DC-DC Ground	7
8	DC-DC Auxiliary Battery	8
11	75A Input/Output 1 Power	11
12	75A Input/Output 1 Ground	12
13	Output 1 Power	13
14	Output 1 Ground	14
15	Output 3 Power	15
16	Output 3 Ground	16
17	Output 4 Power	17
18	Output 4 Ground	18
19	Output 5 Power	19
20	Output 5 Ground	20
21	Output 6 Power	21
22	Output 6 Ground	22
23	Output 7 Power	23
24	Output 7 Ground	24
27	75A Input/Output 2 Power	27
28	75A Input/Output 2 Ground	28



Additional components

3 x #8 (High-Amp Fuse)

7 x #6 (Blade Fuse)

14 AWG	10.0 ft
Auxiliary Power Distribution System:13:Output 1 Power	RD Fridge:1:Power
Auxiliary Power Distribution System:14:Output 1 Ground	BK Fridge:2:Ground

Fridge	
1	Power
2	Ground

14 AWG	20.0 ft
Auxiliary Power Distribution System:15:Output 3 Power	RD Diesel Heater:1:Power
Auxiliary Power Distribution System:16:Output 3 Ground	BK Diesel Heater:2:Ground

Diesel Heater	
1	Power
2	Ground

14 AWG	10.0 ft
Auxiliary Power Distribution System:17:Output 4 Power	RD Mobile Phone Booster:1:Power
Auxiliary Power Distribution System:18:Output 4 Ground	BK Mobile Phone Booster:2:Ground

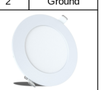
Mobile Phone Booster	
1	Power
2	Ground

14 AWG	10.0 ft
Auxiliary Power Distribution System:19:Output 5 Power	RD USB Chargers:1:Power
Auxiliary Power Distribution System:20:Output 5 Ground	BK USB Chargers:2:Ground

USB Chargers	
1	Power
2	Ground

14 AWG	30.0 ft
Auxiliary Power Distribution System:21:Output 6 Power	RD Lights:1:Power
Auxiliary Power Distribution System:22:Output 6 Ground	BK Lights:2:Ground

Lights	
1	Power
2	Ground



14 AWG	10.0 ft
Auxiliary Power Distribution System:23:Output 7 Power	RD Water Pump:1:Power
Auxiliary Power Distribution System:24:Output 7 Ground	BK Water Pump:2:Ground

Water Pump	
1	Power
2	Ground

8 AWG	6.0 ft
Auxiliary Power Distribution System:27:75A Input/Output 2 Power	RD Inverter:1:Power
Auxiliary Power Distribution System:28:75A Input/Output 2 Ground	BK Inverter:2:Ground

Inverter	
1	Power
2	Ground

4 AWG	3.0 ft
Single Input DC-DC Charger:1:Start Battery	RD Auxiliary Power Distribution System:5:DC-DC Start Battery
Single Input DC-DC Charger:3:Auxiliary Battery	RD Auxiliary Power Distribution System:8:DC-DC Auxiliary Battery
Single Input DC-DC Charger:2:Ground	BK Auxiliary Power Distribution System:7:DC-DC Ground

Single Input DC-DC Charger	
Start Battery	1
Ground	2
Auxiliary Battery	3

Some DC-DC chargers require ring terminals (not shown)

4 AWG	3.0 ft
MPPT Charge Controller:2:Auxiliary Battery	RD Auxiliary Power Distribution System:11:75A Input/Output 1 Power
MPPT Charge Controller:1:Ground	BK Auxiliary Power Distribution System:12:75A Input/Output 1 Ground

MPPT Charge Controller	
Ground	1
Auxiliary Battery	2
Solar Power	3
Solar Ground	4

Some chargers require ring terminals (not shown)

10 AWG	3.0 ft
MPPT Charge Controller:3:Solar Power	RD Solar Disconnect Switch:1:Power Out
MPPT Charge Controller:4:Solar Ground	BK Solar Disconnect Switch:2:Ground Out

Solar Disconnect Switch	
1	Power Out
2	Ground Out
3	Power In
4	Ground In

Typically use screw terminals, no crimp required

10 AWG	20.0 ft
Solar Array:1:Power	RD Solar Disconnect Switch:3:Power In
Solar Array:2:Ground	BK Solar Disconnect Switch:4:Ground In

Solar Array	
Power	1
Ground	2

Additional connections, cable glands, etc are not shown and may be required