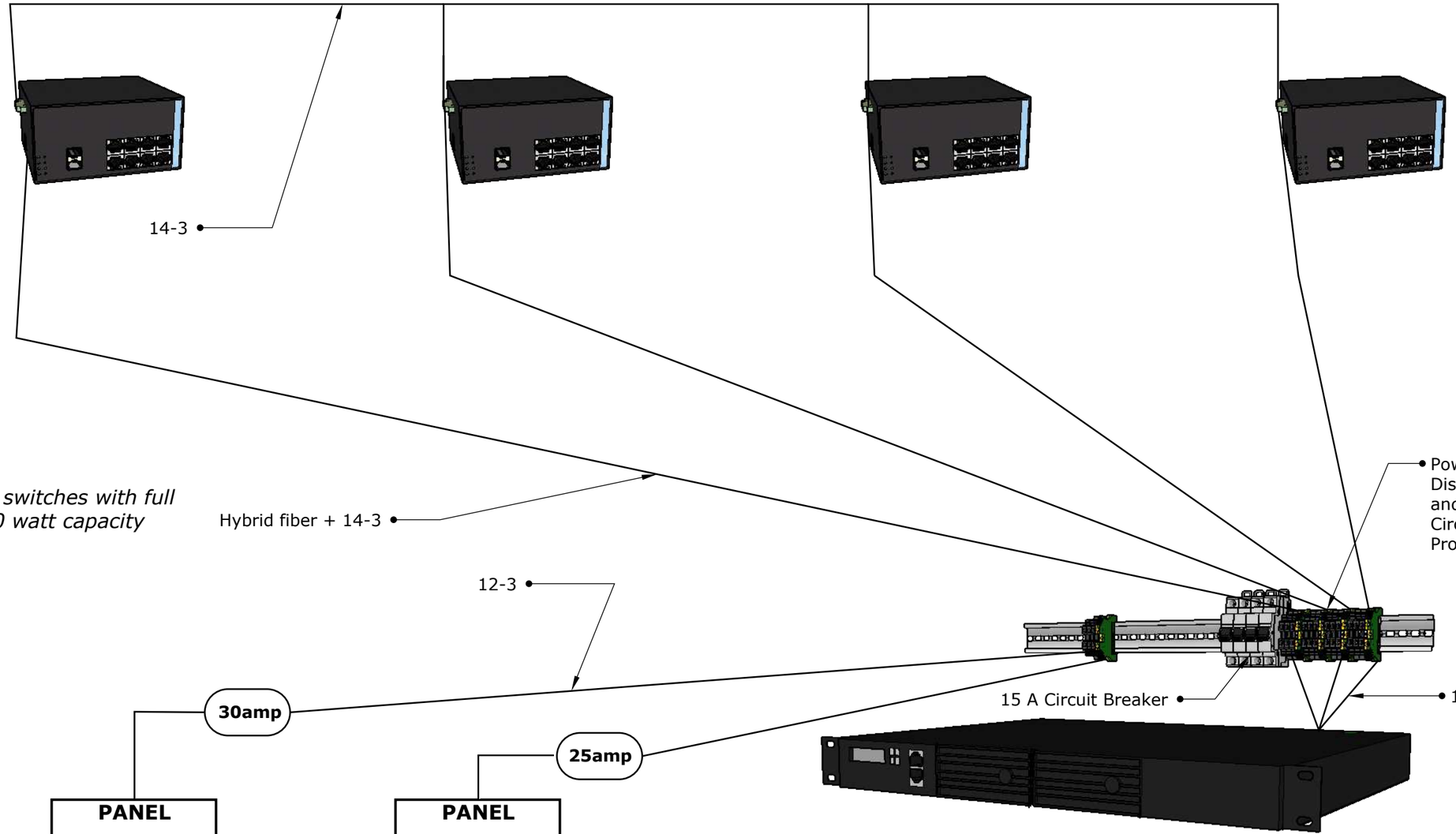
Ring data and/or power configuration for redundancy



Up to 12 switches with full 6,000 watt capacity

Centralized AC back up power for emergency lighting

System de-rates to 3,000 watts at less than 200 volt source

Distributed Switch Power Riser Diagram

LEGEND		
NO	PART	DESCRIPTION
1	PS-53V3000W	53 VOLT DC POWER SUPPLY RATED FOR 6,000W
2	N/A	TERMINAL POWER STRIP PLUS PROTECTION
3	GBTS-10-8	8 PORT IEEE 802.3BT SWITCH - 500 WATTS

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PS-53V3000W WIRING DIAGRAMS

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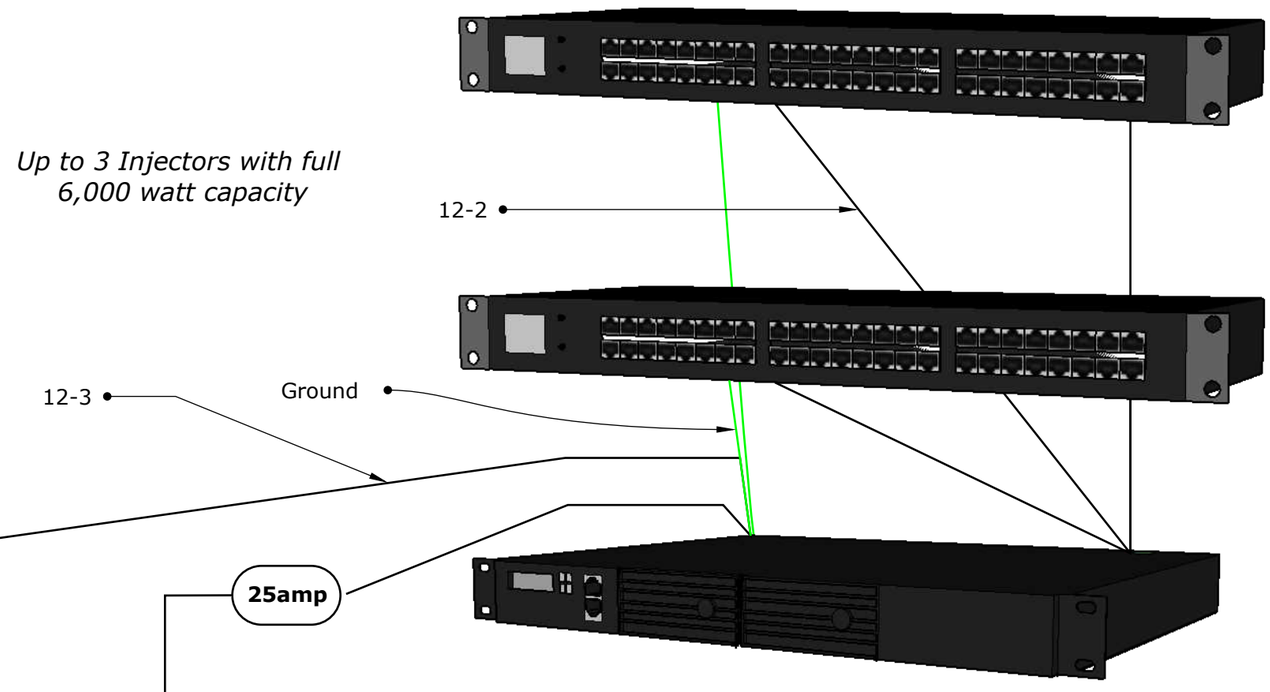
DATE:
December 14, 2022

TITLE:
DISTRIBUTED RISER DIAGRAM

DRAWING NUMBER:

A

Ring power configuration for redundancy



Up to 3 Injectors with full 6,000 watt capacity

Centralized AC back up power for emergency lighting

System de-rates to 3,000 watts at less than 200 volt source

Centralized Injector/Switch Riser Diagram

LEGEND		
NO	PART	DESCRIPTION
1	PS-53V3000W	53 VOLT DC POWER SUPPLY RATED FOR 6,000W
2	GBT-24-M	24 PORT IEEE 802.3bt MANAGED INJECTOR

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WIRING DIAGRAMS

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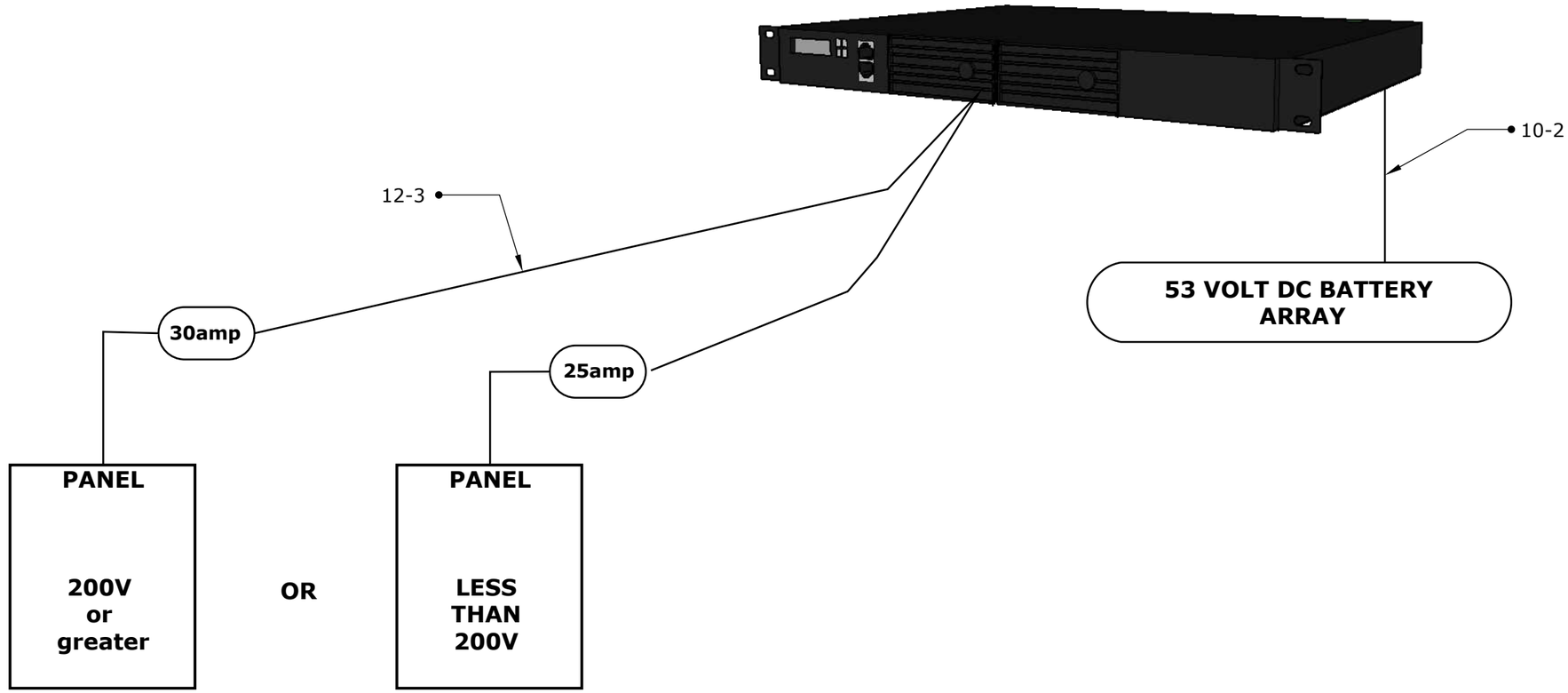
CENTRALIZED RISER DIAGRAM

DRAWING NUMBER:

B

Localized DC Battery Back Up Power



System de-rates to 3,000 watts at less than 200 volt source

LEGEND		
NO	PART	DESCRIPTION
1	PS-53V3000W	53 VOLT DC POWER SUPPLY RATED FOR 6,000W
2	TBD	53 BATTERY BACK UP ARRAY

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PS-53V3000W WIRING DIAGRAMS

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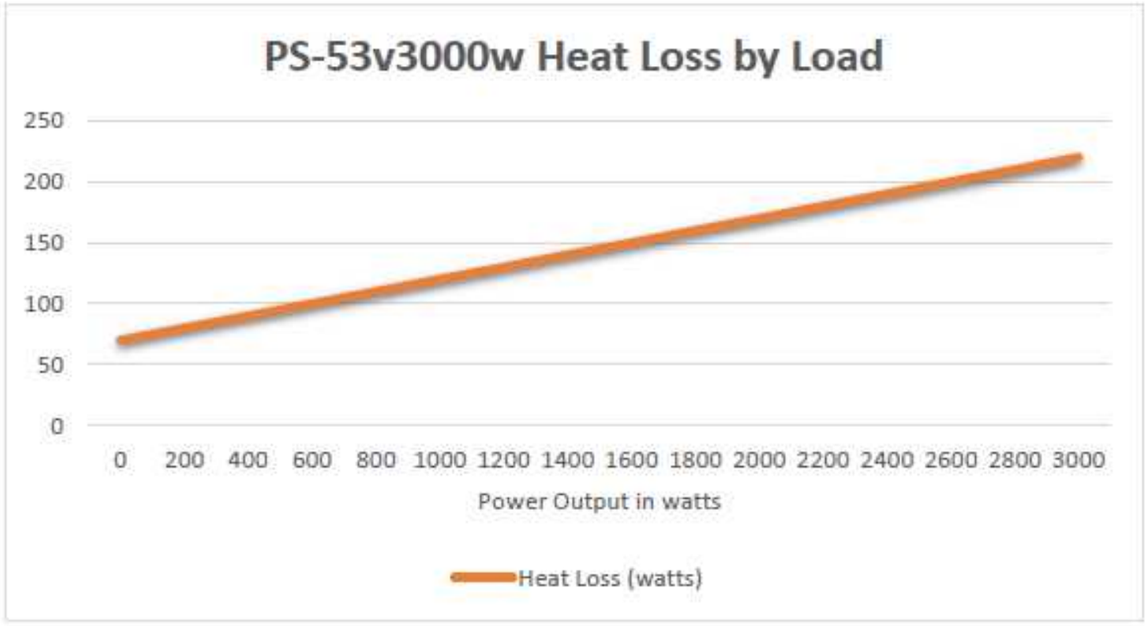
TITLE:
BACKUP POWER RISER

DRAWING NUMBER:

C

Heat Load Table

Power Output (watts)	Heat Loss (watts)
0	70
200	80
400	90
600	100
800	110
1000	120
1200	130
1400	140
1600	150
1800	160
2000	170
2200	180
2400	190
2600	200
2800	210
3000	220



The PS-53v3000w does put off enough heat when under load that it's important to consider how you will deal with the heat. The key considerations are:

- The PS-53v3000w operates well up to 55 C or 131 F in local ambient conditions
- Local ambient conditions mean the space where the power supply will be located
- While an office space may be at 75 F, a fully enclosed rack with not ventilation can easily go above 130 F
- Ideally the PS-53v3000w is installed in the rack with at least 1u space between it and the GBTS-28-24-M
- Racks should either be open in the back or have good, reliable forced ventilation to move around around and out of the cabinet
- The room outside, typically an IDF or MDF, the rack or cabinet should have local temperature control through a thermostat and air handling unit
- See the Heat Load Calculator to see how to size any air handling or air conditioning requirements

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PS-53V3000W WIRING DIAGRAMS

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DATE:
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TITLE:
HEAT LOAD TABLE

DRAWING NUMBER:

D