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CALOROC Power Tree

PRESENTED BY

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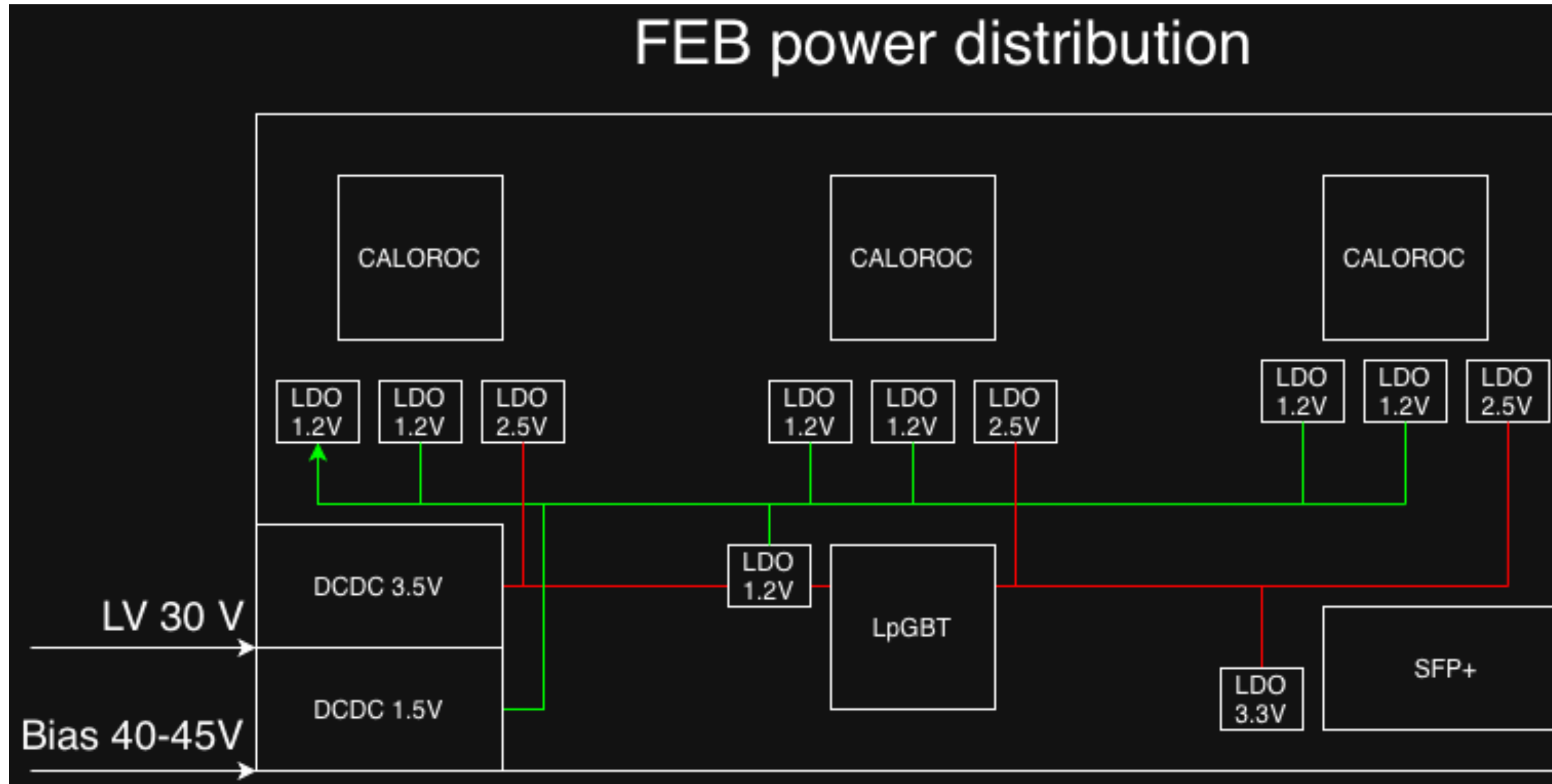


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Power tree as of now



FEB input is 25-30V

Consumption is 5W in total

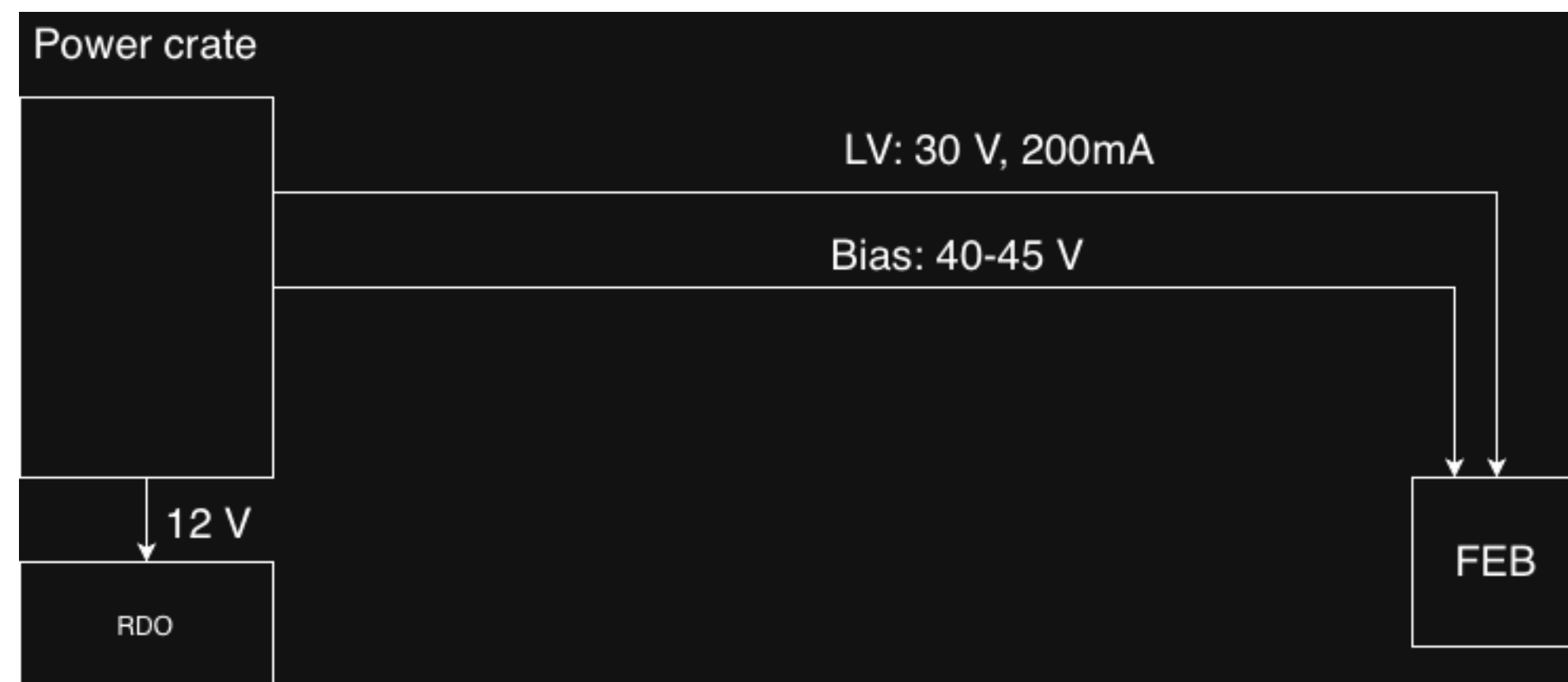
Input around 200mA

Assuming the power crate is 30 meters away, 18 Gauge wire:

Voltage drop expected is 0.25V

Loss 50mW

From power crate to FEB



We expect maximum of 30 meter cables in length. In function of bPOL48 efficiency, power consumption, geometry of the detector, we might combine multiple FEB's with daisy chaining if needed - or a common power distribution board

RDO - will sit in a crate, expected voltage is 12V input only

The only difference from this might be the BIC - because of the required Astropix and ETC power. We are still working on how much power it would need, maybe it's own bPol48