7.2. Energy Bi-Phase Distribution and Control – Block Diagram

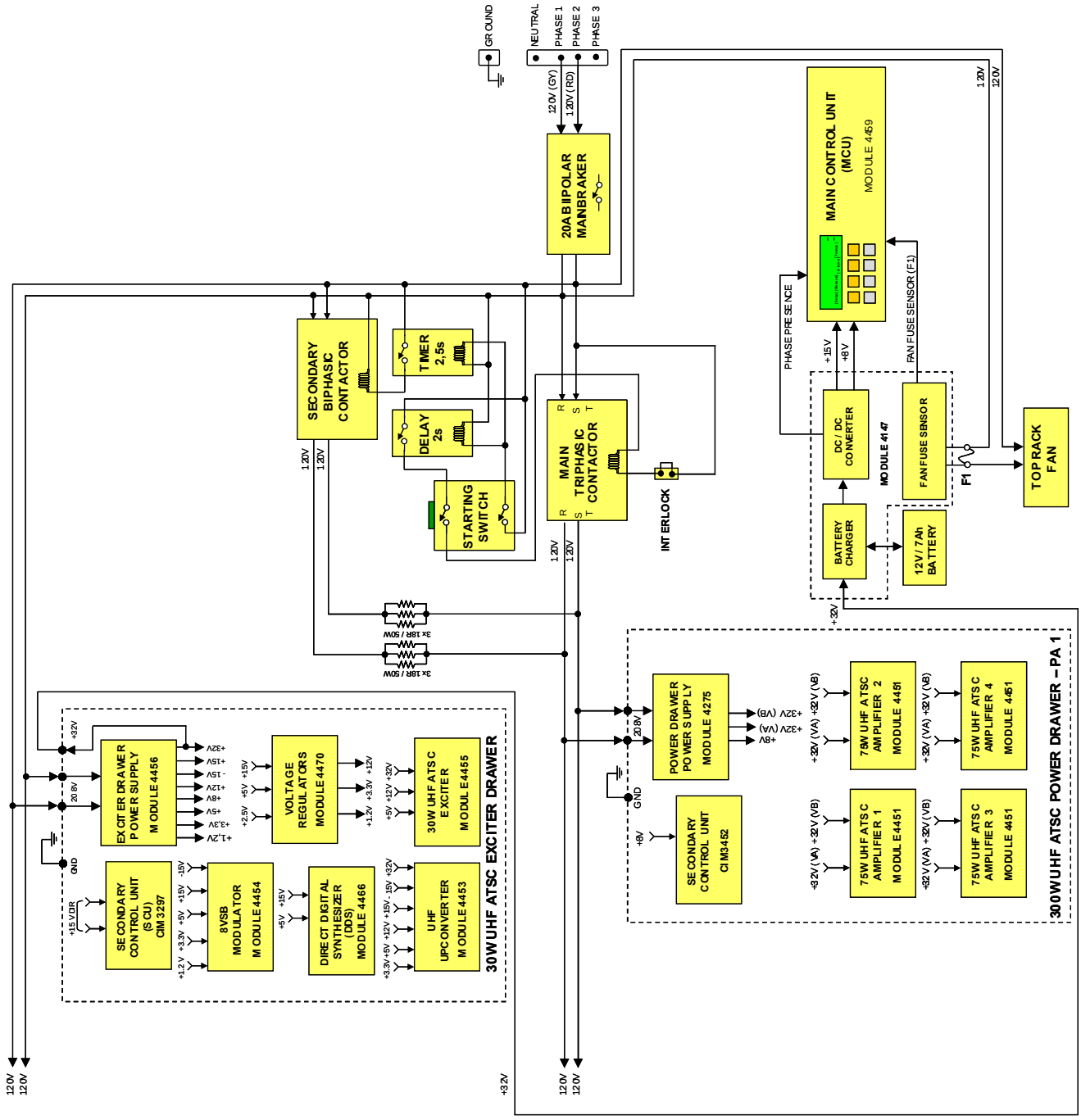

Fig.7.4: Energy Distribution and Control – block diagram - 240V bi-phase configuration.

7.2.2. Main Parts List for Bi-Phase Configuration

- 01 bi-polar breaker; 30A.
- 01 three-phase main breaker.
- 01 I Rush sub-module 4443.
- 01 interlock, or jump
- 01 battery 12V / 7Ah.
- 01 AC main sub– Module 4147.

7.2.2.1 Bi-Polar Breaker

When turned ON, this device connects the 2 phases that are routed directly to the exciter drawer, module 4452, to the fan on the top of the transmitter rack, and to the I-Rush circuit.

7.2.2.2 Three-phase Main Breaker

When it is turned ON, this device connects up to three phase, (R, S, T) to the power amplifier(s) drawer (s), module 4445.

7.2.2.3 I Rush Module 4443

Rush module reduces the current peak when the transmitter is turned ON. This peak of current is generated by the switching power supplies, at the moment when the 20A bi-polar breaker is turned ON.

Fig. 7.5: I-Rush module 4443