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## **Salient Characteristics for Alternating Current (AC) Electronics Load Bank**

- 1) Power Rating: Minimum of 20KVA  
NOTE: 20KVA can be accomplished with expandable units.
- 2) Phase Operation: The system shall be capable of supporting a single and three phase configurations.
- 3) Input Power:
  - a. Voltage: 115 or 220V
  - b. Frequency: 60±.5%
- 4) Operating Voltage Range
  - a. RMS Voltage 50 – 350V
  - b. Peak Voltage 0 – 500V
- 5) Operating Current Range
  - a. 0 – 60 A (rms)
- 6) Operating Frequency Range
  - a. 45 – 440Hz
- 7) Electrical Protection: The unit shall have means for protection against, over-current, voltage, power and temperature.
- 8) Remote Interface: The unit shall be equip with meanings of remote interfacing via RS232/Ethernet
- 9) Programmable Features: The system shall be able to support the following programmable features:
  - a. Crest Factor
  - b. Power Factor Two-Quadrant Operation
  - c. Short-circuit mode
  - d. Transients
  - e. Custom In-rush Current
  - f. Operation Modes
    - I. Constant Loads
      - i. Constant Current
      - ii. Constant Resistance
      - iii. Constant Power
    - II. Simulation of Non-linear rectified loads
      - i. RLC Loads
      - ii. CP Loads
      - iii. In-rush Current Mode
- 10) Vendor shall provide, equipment mounting cabinet with the following features:
  - a. Not to exceed 80” of height
  - b. Shall be equipped with casters
  - c. AC distribution for control power

- d. Shall be equipped with an IEC 220V AC Plug and at least 4' of cable, for power distribution.
- e. Shall be equipped with chassis slides for each one of the power modules
- f. Shall include a shipping crate