

DLS-100 & DLS-200 Features & Benefits

By AeroVironment

Features as Load Simulator

- Operates in the following modes:
 - Programmable current (CC) – for voltage regulation testing
 - Programmable power (CP) – for switching power supplies testing
 - Programmable resistance (CR) – to replace resistive load bank
 - Power factor control
 - Programmable RLC simulation for anti-island testing

Features as Voltage Source Simulator

- User programmable:
 - Voltage (400 – 530V)
 - Frequency (45 – 65Hz)
 - Current limits

Common Features

- Nominal 480Vac operation (three wire with neutral)
- Independent control of each phase
- LabVIEW interface through CAN or RS-232 communication
- Transformerless design

Option Features

- Crest factor control
- Variable frequency 45 – 500Hz
- Abnormal disturbances (time and cycle transient)
- Waveform library
- Higher power three-phase system

Benefits

- Operates with any DG or UPS system up to 200kVA
- Effective method of testing real-world power conditions
- Replace expensive and large RLC load banks
- Fully supports IEEE 1547 testing requirements

Applications

- UPS, fuel cell testing
- Avionics testing of military and aircraft
- Grid tied inverter testing
- Power supply testing
- Motor testing
- Braker, fuse testing
- Transformer testing
- Air conditioning testing
- Anti-island testing