

DS820

Stand-Alone Eddy Current Power Amplifier



The DS820 Power Amplifier Unit (PAU) is an open-loop, intelligent, universal Eddy Current Power Amplifier Unit. The DS820 can be used in applications ranging from simple manual control to fully integrated test cell installations.

Dimensions

Wall: 16.25" w x 20.5" h x 8.75" d
Rack: 19" w x 3.5" h x 15" d

Control Power

**120 V, 1.0 Amps,
50/60 Hz compatible**

PAU (Field) Power

**Up to a maximum;
480 V, 100 Amps (wall)
277 V, 30 Amps (rack)**

Environmental Limits

Air Temperature: 0° to 40°C (104°F)

**Relative Humidity: 0 to 95%
No condensation allowed**

Optional Configurations

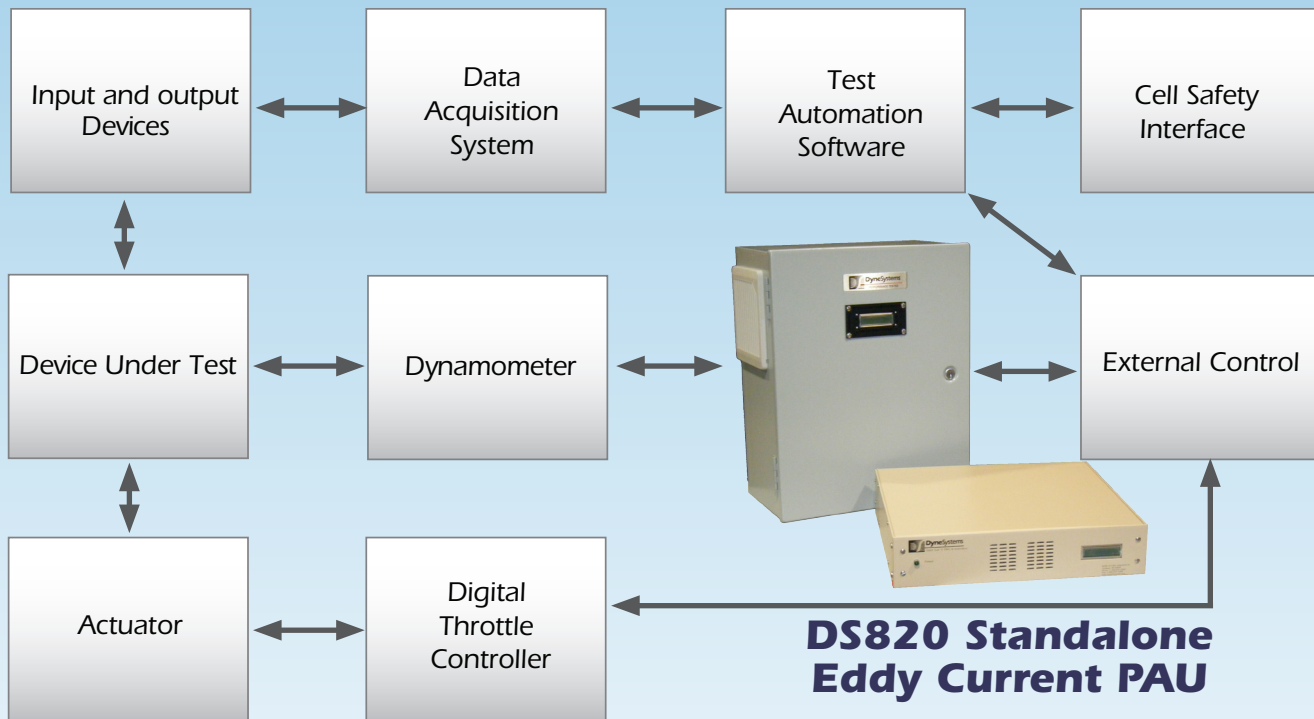
**Rack mount and wall mount
Combination DS820 / DS830**

Features

- Analog voltage or current input enables unit to be used as a standalone open-loop eddy current power amplifier
- Analog input accommodates either a 0-20 mA or 0 to +10 VDC input command
- Analog output is a 0 to +10 VDC current feedback output (proportional to the current setpoint)
- Digital Inputs include Coolant Pressure/Flow, Coolant Temperature, Dyne On, Reset commands and 3 additional general purpose safety inputs
- Digital Outputs include PAU OK, PAU On, Coolant OK
- Interfaces with industrial PC / PLC 24 VDC logic based controllers
- LCD display provides real-time field current, input command, and status feedback, including fault messages
- Integrates with all Dyne Systems dynamometer controllers
- Ability to compensate for low inductance coils
- Rack mount units available up to 30 amp at 277 VAC input (250 VDC output)
- Wall mount units available up to 100 amp at 480 VAC input (430 VDC output)

Testing Applications

- Engine
- Electric Motor
- Transmission / Differential / Transaxle



DS820 Standalone Eddy Current PAU

Dyne Systems Product Line

Closed Multi-Loop Dynamometer & Throttle Control

- Inter-Loc V
- DS630 Inter-Loc V Throttle Controller

Closed Single-Loop Dynamometer Control

- Dyn-Loc IV
- Dyn-Loc V

Closed Loop Throttle Control

- DTC-1
- DS830 Stand-Alone Throttle Controller

Open Loop Dynamometer Control

- DS820 Eddy Current PAU

Closed Loop Water Flow Control

- EWC-1

5-Gas Exhaust Analyzer

- XM2000

Data Acquisition

- Companion II: Dyne Systems proprietary
- Companion III: Yokogawa based
- Companion IV: NI cRIO based

Test Automation Software

- Cell Assistant for Windows
- Cell Assistant for LabVIEW™ (VeriStand™)

Test Cell Safety PLC Interface

- CIA I: Automation Direct / Koyo
- CIA II: Horner
- CIA III: ABB
- CIA IV: Allen-Bradley

Throttle Accessories

- Actuator, Remote Pendant, Cables

Eddy Current Dynamometers

- 5–5000 Hp

AC Dynamometers and Drives

- 5–1600 Hp

DC Dynamometers and Drives

- 5–1200 Hp



Dynamometers ■ Controls ■ DAQ ■ Automation ■ System Integration