



KDLF Series Fuel Cell Specific Energy Recycling DC Electronic Load

- Energy Recycling Electronic Load
- Static-state load modes: CV/CR/CC/CP
- Flexible setting of work steps for dynamic-state load mode
- Voltage/Current slew rates can be set
- Voltage compensation
- External emergency stop

Production Introduction

The KDLF Series Fuel Cell Specific Energy Recycling DC Electronic Load is specifically developed for fuel cell stack and engine testing. It is a converter device based on two-stage IGBT power conversion structure of power frequency isolation type, featuring high reliability, programmable, and automatic operation. High-precision and high dynamic response. Support full power range energy recovery to the grid. A great match for low-voltage and high-current testing.

Product Advantages

- Fast dynamic response for current
- Insulation detection
- Real-time communication signal monitoring for upper computer software
- Support high current loading at nearly 0V for air starvation activation test
- *Capable of controlling the stack at constant voltage output. Voltage/Current slew rate can be set
- Automatic mode switch: Source/Load Modes. Provide high-voltage power supply to the engine's starting process

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Specifications & Parameters

Models	Rated Power [kW]	Rated Current [A]	Voltage Range [V]
KDLF50-800-800	50	800	24-800
KDLF80-800-800	80	800	24-800
KDLF100-800-800	100	800	24-800
KDLF150-800-1000	150	1000	24-800
KDLF200-800-1000	200	1000	24-800
KDLF300-800-1000	300	1000	24-800
KDLF500-800-1000	500	1000	24-800
KDLF100-1000-800	100	800	24-1000
KDLF150-1000-1000	150	1000	24-1000
KDLF200-1000-1000	200	1000	24-1000
KDLF300-1000-1000	300	1000	24-1000
KDLF500-1000-1000	500	1000	24-1000

Load Mode	
Work Modes	CV/CR/CC/CP
Voltage Precision	±0.1% FS+5dgt
Current Precision	±0.1% FS+5dgt
Response Time	±0.2% FS
Current Ripple (rms)	±10mA
Voltage Resolution	0.001V
Current Resolution	0.001A
Power Resolution	0.001kW
Max. Efficiency	94%
Protection	OVP/OCP/OTP/Phase loss/Emergency stop etc.

Feedback Characteristics	
Energy Recovery	Energy recovery is available in full power range.
THD	≤3%
PF	≥0.99
Output Voltage	380V±15%
Frequency	50Hz±5Hz

Communication Interfaces	
Local Interface	LCD
Remote Control	RS485/LAN /CAN
Others	Emergency stop/Fault signal/Voltage compensation

Safety & Ambient Conditions	
Insulation Resistance	≥20MΩ/500Vdc
Withstand Voltage	3000Vdc (60s, no arcing/breakdown)
Ground Resistance	≤0.1Ω
Protection Level	IP21(indoor)
Cooling	Fan cooling
Ambient Temperature	-10 ~ 40°C
Relative Humidity	0.90%RH (Non-condensing at 25°C)
Altitude	≤2000m

The upper computer software for the equipment enables remote communication. It can also be controlled by other test systems

Software Interfaces

