Kewell

KDL Series

Energy Recycling DC Electronic Load

- Four operation modes: CV/CR/CC/CP
- Flexible setting of work steps
- Voltage/Current rise/fall slew rates can be set
- Voltage compensation
- External emergency stop

Production Introduction

KDL Series Energy Recycling DC Electronic Load is a power conversion device based on power frequency isolation, and IGBT two-stage conversion architecture. The product features high precision, high dynamic response, high reliability, and energy recovery to the grid in full power range.

Product Advantages

Wide voltage/current range
High voltage/current precision/resolution
High dynamic response
Multi-filtering solutions; Low ripple
High conversion efficiency: Max. 94%
Complete safety protection: OCP/OTP etc.
Standard communication interfaces: RS485/CAN/LAN

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Specifications & Parameters

Models	Rated Power [kW]	Rated Current [A]	Rated Voltage [V]	Voltage Range[V]
KDL80-1000-300	80	300	266	24-1000
KDL100-1000-350	100	350	285	24-1000
KDL150-1000-500	150	500	300	24-1000
KDL200-1000-600	200	600	333	24-1000
KDL250-1000-600	250	600	416	24-1000
KDL300-1000-750	300	750	400	24-1000
KDL400-1000-1000	400	1000	400	24-1000
KDL500-1000-1200	500	1200	416	24-1000

*Rated voltage of each model above is also available in 800V and 1200V. High voltage standard product is also available in 1500V and 2000V, with dual channel.

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

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

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℃
Relative Humidity	0-90%RH (Non-condensing at 25℃)
Altitude	≤2000m

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

NOTE: The withstand voltage listed above applies to 800V/1000V/1200V products only; For those of 1500V, the withstand voltage is designed according to 3200Vdc; For those of 2000V, the withstand voltage is designed according to 3700Vdc.

Software Interfaces

Flexible setting of test operation for electronic load: Static-state/Dynamic-state Mode.

Static-state Mode

Dynamic-state Mode