



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
KDL250-1000-800	250	800	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		Safety & Ambient Conditions	
Work Modes	CV/CR/CC/CP	Insulation Resistance	≥20MΩ (500Vdc)
Voltage Precision	±(0.1% FS+5dgt)	Withstand Voltage	3000Vdc (50s, no arcing/breakdown)
Current Precision	±(0.1% FS+5dgt)	Ground Resistance	≤0.1Ω
Response Time	≤10ms	Protection Level	IP21 (indoor)
Current Ripple (rms)	≤0.2% FS	Cooling	Fan cooling
Voltage Resolution	0.001V	Ambient Temperature	-10~40℃
Current Resolution	0.001A	Relative Humidity	0-90%RH (Non-condensing at 25℃)
Power Resolution	0.001kW	Altitude	≤2000m
Protection	OVP/OCP/OTP/Phase loss/ Emergency stop etc.	Communication Interfaces	
Feedback Characteristics Energy recovery is available in full power range. I/THD ≤3% PF ≥0.99 Output Voltage 380V±15% Frequency 50Hz±5Hz		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