



The **TEKLAB EL series DC electronic loads** are high precision programmable DC electronic loads, available with rated power 300W and 600W. The DC load can be used as adjustable constant current electronic load, variable constant voltage electronic load, and constant power electronic load.

**The Programmable Electronic Load** is widely used as battery load tester and battery capacity tester.

The 300W DC electronic load is available with 150V 60A electronic load. The 600W DC electronic load is available with 600W 150V 60A electronic load.

### **FEATURES**

- 4 basic functions: CC, CV, CR, CP
- 9 basic operation modes: CCL, CCH, CVL, CVH, CRL, CRM, CRH, CPV, CPC
- 24-bit A/D converter and 16-bit D/A converter, 40kHz D/A conversion speed, high resolution & high speed
- Hardware circuit for CR function, faster transient response and higher CR accuracy
- High speed transient test function, max. test frequency 2kHz
- Over current, over voltage, overpower, over temperature and reverse voltage protections
- 4.3-inch backlit Segment LCD display
- High speed rotary dial and keypad input
- Auto ON/OFF function
- List Mode function, step 10ms-99999s, free to set numbers of cycles and to be linked to other lists
- Auxiliary functions: short circuit test, battery discharge capacity test
- Save & recall function for frequently used setups
- Intelligent cooling system, ensure high stability during long-time operation under full load
- Standard RS232 interface, support SCPI commands, support Lab view
- Optional RS232 to USB cable

## SPECIFICATIONS

PARAMETER	RESOLUTION	BASIC ACCURACY
CV Mode	1 mV / 10 mV	$\leq \pm (0.05\% + 0.02\% \text{ F.S.})$
CV Mode	1 mV / 10 mV	$\leq \pm (0.1\% + 0.1\% \text{ F.S.})$
CR Mode	100 $\mu\Omega$ ~ 1.6 $\mu\Omega$	$\leq \pm (0.5\% + 0.5\% \text{ F.S.})$
CP Mode	1 m W / 10 m W	$\leq \pm (1\% + 0.1\% \text{ F.S.})$
Voltage Read Back	1mV / 10 mV	$\leq \pm (0.05\% + 0.02\% \text{ F.S.})$
Current Read Back	1 mA	$\leq \pm (0.1\% + 0.1\% \text{ F.S.})$
Power Read Back	1 m W / 10 m W	$\leq \pm (1\% + 0.1\% \text{ F.S.})$
Battery Discharge	Cap.: 3000AH. Discharge Time: 1S ~ 100 H	
Ripple & Noise	3 mA / 30 mA rms / p-p AND 5mV rms	
Accessories	User's Manual, Mains Cord & RS232 Cable (Opt.)	
Power Supply	AC 110 / 220V ( $\pm 10\%$ ) Selectable, 50 /60 Hz.	
Weight & Dimensions (W x H x D)	Approx.5.2Kgs/6.8Kgs/9.2 Kgs.,215 x 90 x 412 mm.	

*\*All Specifications & appearances are subject to change without prior notice.*

## SELECTION GUIDE

MODEL	INPUT VOLTAGE	INPUT CURRENT	INPUT POWER
<b>TL300-EL</b>	150	1mA ~ 60A	300 W
<b>TL600-EL</b>	150	1mA ~ 60A	600 W



Manufactured by,  
**TEKLAB INDIA SOLUTIONS** AN ISO 9001: 2015 COMPANY  
 #48, RMV 2<sup>nd</sup> Stage, 3rd Block, Devasandra, NEW BEL Road, Bangalore-560054, Karnataka, India  
 Website: [www.teklabindia.com](http://www.teklabindia.com)

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