

TECHNICAL DATASHEET

## **KA3005PE+ PROGRAMMABLE DC LINEAR POWER SUPPLY**



## **Key Features**

- Digitally-controlled power supply
- 4-digit display
- Intelligent temperature-controlled fan with speed controlled by heat temperature and output power
- Compact Design
- 10 mV /1 mA resolution
- Low noise and ripple
- CV / CC automatic switching
- Output ON/OFF control

## **Product Description**

The KA3005PE+ Linear Programmable DC power supply features industrial-grade performance with communication control via USB, RS232, RS485, and MODBUS. Its fully digital control ensures accurate voltage and current output. All with precision encoder adjustment and memory locations with dedicated buttons for fast recall. This unit also features over-voltage, over-current, and reverse polarity protections. All of this delivered with low-noise and an intelligent temperature-controlled fan.

- Voltage, Amperage, and Wattage Readout
- 5 sets of parameters can be stored for fast recall
- Fine & coarse adjustment for voltage and current
- Software calibration
- Panel LOCK function
- Settable OCP and OVP
- Reverse polarity protection
- Communication Control via USB, RS232, RS485, and MODBUS.







## **Specifications**

Model	KA3003DS/ KA3003DE/ KA3003DEA/ KA3003PS/ KA3003PE/ KA3003PEA/ KA3003PEA+	KA3005DS/ KA3005DE/ KA3005DEA/ KA3005PS/ KA3005PE/ KA3005PEA/ KA3005PEA+	KA6002DS/ KA6002DE/ KA6002DEA/ KA6002PS/ KA6002PE/ KA6002PEA/ KA6002PEA+	KA6003DS/ KA6003DE/ KA6003DEA/ KA6003PS/ KA6003PE/ KA6003PEA/ KA6003PEA+	KA3010DS/ KA3010DE/ KA3010DEA/ KA3010PS/ KA3010PE/ KA3010PEA/ KA3010PEA+	KA6005DS/ KA6005DE/ KA6005DEA/ KA6005PS/ KA6005PE/ KA6005PEA/ KA6005PEA+					
Voltage Range	0-30V	0-30V	0-60V	0-60V	0-30V	0-60V					
Current Range	0-3A	0-5A	0-2A	0-3A	0-10A	0-5A					
Load Regulation											
Voltage Current	≤0.01%+2mV ≤0.1%+5mA ≤0.1%+10mA	≤0.01%+2mV ≤0.1%+5mA	≤0.01%+2mV ≤0.1%+5mA	≤0.01%+2mV ≤0.1%+5mA	≤0.01%+3mV ≤0.1%+20mA	≤0.01%+2mV ≤0.1%+10mA					

Line Regulation														
Voltage Current	≤0.01%+3mV ≤0.1%+3mA			≤0.01%+3mV ≤0.1%+3mA		≤0.01%+3mV ≤0.1%+3mA		≤0.01%+3mV ≤0.1%+3mA		≤0.01%+3mV ≤0.1%+3mA				
Setup Resolution														
Voltage Current	10mV 10mV 1mA 1mA		10mV 1mA		10mV 1mA		10mV 1mA		10mV 1mA					
Setup Accuracy (25°C to -5°C)														
Voltage Current	≤0.5%+20mV ≤0.5%+3mA	≤0.5%+20mV ≤0.5%+5mA		≤0.5%+30mV ≤0.5%+3mA		≤0.5%+30mV ≤0.5%+3mA		≤0.5%+20mV ≤0.5%+10mA		≤0.5%+30mV ≤0.5%+5mA				
Ripple (	20-20m)													
Voltage Current	≤1mVrms ≤3mVrms	≤2mVrms ≤3mVrms		≤1mVrms ≤3mVrms		≤1mVrms ≤3mVrms		≤2mVrms ≤5mVrms		≤1mVrms ≤3mVrms				
Temper	ature Coefficie	ent												
Voltage Current	≤150ppm ≤150ppm	≤150ppm ≤150ppm	≤150ppm ≤150ppm		≤150ppm ≤150ppm		≤150ppm ≤150ppm		≤150ppm ≤150ppm					
Read Ba	ack Accuracy													
Voltage Current	10mV 1mA	10mV 1mA	10mV 1mA		10mV 1mA		10mV 1mA		10mV 1mA					
Read Ba	ack Temperatu	re Coefficient	_		_									
Voltage Current	≤150ppm ≤150ppm	≤150ppm ≤150ppm			≤150ppm ≤150ppm		≤150ppm ≤150ppm		≤150ppm ≤150ppm					
Reaction	n Time													
Voltage Diobi - 1 - 1 - 1 - 1 - 1		≤100mS	d)	≤100mS ≤100mS (10% rated load		≤100mS ≤100mS (10% rated load		≤100mS ≤100mS d) (10% rated load		≤100mS ≤100mS (10% rated load)				
Analog	Programming	: 0-10V contro	(	only for some	mo	dels)								
External voltage control output voltage Accuracy and linearity: ±0.1% of rated output voltage+15mv														
External	voltage control	l output current	Α	ccuracy and	lin	earity: ±0.5%	6 c	of rated outpu	ıt c	urrent+5mA.				



