

TECHNICAL DATASHEET

KA3005DE DIGITAL CONTROL DC LINEAR POWER SUPPLY



at an affordable price point. Its fully digital control ensures accurate voltage and current output. All with precision encoder adjustment and memory locations with dedicated buttons for fast recall. The KA3005DE keeps you and

your work protected as well with over-voltage, over-current, and reverse polarity protections.

supply features industrial-grade performance

The KA3005DE Linear regulated DC power

Product Description

All of this delivered with low-noise and an intelligent temperature-controlled fan.

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

- 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







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 Re	gulation													
Voltage Current	≤0.01%+3mV ≤0.01%+3mV ≤0.1%+3mA ≤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 R	esolution													
Voltage Current	10mV 1mA	10mV 1mA		10mV 1mA		10mV 1mA		OmV mA	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		≤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					
Read Ba	ack Accuracy													
Voltage Current	10mV 1mA	10mV 1mA	10mV 1mA		10mV 1mA		10mV 1mA		10mV 1mA					
Read B	ack Temperatu	ıre Coefficient												
Voltage Current			≤150ppm ≤150ppm		≤150ppm ≤150ppm		≤150ppm ≤150ppm		≤150ppm ≤150ppm					
Reaction	n Time													
Voltage R Voltage D		≤100mS ≤100mS (10% rated loa		≤100mS ≤100mS (10% rated loa		≤100mS ≤100mS (10% rated load		≤100mS ≤100mS (10% rated load	≤10	0mS 00mS rated load)				
Analog	Programming	: 0-10V contro	l (only for some	mo	dels)								
External	voltage contro	l output voltage	Α	ccuracy and	lin	nearity: ±0.1%	6 c	of rated outpu	ıt voltaç	ge+15mv				
External	voltage contro	l output current	Α	ccuracy and	lin	earity: ±0.5%	6 C	of rated outpu	t curre	nt+5mA.				



