Encode Control Tripple Channel
DC Power Supplies

TENMA™

72-13300

72-13310

72-13320

72-13330

Description

These multi-channel series DC power supply uses digital encoders and the button control, which has the simple and convenient operation, safe and reliable features. And there are series and parallel output operations and triple-way adjustable control that is CH1 and CH2 output 0-30V while CH3 can output three voltage stalls: 2.5V, 3.3V and 5V. In addition there is the output switch and the shutdown memory function. And the fine and coarse adjustments can be achieved by pressing the knobs. Furthermore, the knobs have 2 operating modes: the continuous adjustment and the lock adjustment, which can make the operation convenient and reliable that is, the keyboard can be locked to avoid improper operation. Regarding interfaces, LAN, USB & RS232 are included with a wealth of SCPI instructions which can provide the Labview driver and programming examples to facilitate engineers to set up the test system quickly.

Features

- 30V × 2.5V/3.3V/5V
- 10mV/1mA high accuracy resolution DC power supply
- Shutdown memory
- Complete digital control
- Industrial grade with load for a long time
- Intelligent temperature controlled fan
- Compact Design
- Over-Current Protection
- Output ON/OFF control
- Knob LOCK function to avoid improper operation
- LAN, USB & RS232 interface (Model 72-13320 / 72-13330 only)

Specifications

	72-13300	72-13310	72-13320	72-13330
Voltage Range / Current Range	0-30V / 0-3A × 2, 5V, 3.3V, 2.5V / 3A × 1	0-30V / 0-5A × 2, 5V, 3.3V, 2.5V / 3A × 1	0-30V / 0-3A × 2, 5V, 3.3V, 2.5V / 3A × 1	0-30V / 0-5A × 2, 5V, 3.3V, 2.5V / 3A × 1
Load Regulation	Voltage: ≤0.01%+3mV / Current: ≤0.1%+5mA	Voltage: ≤0.01%+5mV / Current: ≤0.1%+10mA	Voltage: ≤0.01%+3mV / Current: ≤0.1%+5mA	Voltage: ≤0.01%+5mV / Current: ≤0.1%+10mA
Line Regulation	Voltage: ≤0.01%+3mV / Current: ≤0.1%+3mA	Voltage: ≤0.01%+3mV / Current: ≤0.1%+3mA	Voltage: ≤0.01%+3mV / Current: ≤0.1%+3mA	Voltage: ≤0.01%+3mV / Current: ≤0.1%+3mA
Setup Resolution	Voltage: 10mV / Current: 1mA	Voltage: 10mV / Current: 1mA	Voltage: 10mV / Current: 1mA	Voltage: 10mV / Current: 1mA

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	72-13300	72-13310	72-13320	72-13330
Setup Accuracy (25°C ±5°C)	Voltage: ≤0.5%+20mV / Current: ≤0.5%+5mA	Voltage: ≤0.5%+20mV / Current: ≤0.5%+10mA	Voltage: ≤0.5%+20mV / Current: ≤0.5%+5mA	Voltage: ≤0.5%+20mV / Current: ≤0.5%+10mA
Ripple (20hz-20M)	Voltage: ≤1mVrms / Current: ≤3mArms	Voltage: ≤ 2mVrms / Current: ≤ 3mArms	Voltage: ≤ 1mVrms / Current: ≤ 3mArms	Voltage: ≤ 2mVrms / Current: ≤ 3mArms
Temp. Coefficient	Voltage: 100ppm +10mV /Current: ≤100ppm+5mA	Voltage: 100ppm+10mV / Current: ≤100ppm+5mA	Voltage: 100ppm+10mV / Current: ≤100ppm+5mA	Voltage: 100ppm+10mV / Current: ≤100ppm+5mA
Read Back Accuracy	Voltage: 10mV / Current: 1mA	Voltage: 10mV / Current: 1mA	Voltage: 10mV / Current: 1mA	Voltage: 10mV / Current: 1mA
Read Back Temp. Coefficient	Voltage: ≤100ppm+10mV / Current: ≤100ppm+5mA	Voltage: ≤100ppm+10mV / Current: ≤100ppm+5mA	Voltage: ≤100ppm+10mv / Current: ≤ 100ppm+5mA	Voltage: ≤100ppm+10mV / Current: ≤ 100ppm+5mA
Reaction Time (10% Rated load)	Voltage Rise: ≤ 100mS / Voltage Drop: ≤ 100mS	Voltage Rise: ≤ 100mS / Voltage Drop: ≤ 100mS	Voltage Rise: ≤ 100mS / Voltage Drop: ≤ 100mS	Voltage Rise: ≤ 100mS / Voltage Drop: ≤ 100mS
Load Regulation of Parallel	Voltage: ≤0.1% +0.2V	Voltage: ≤0.1% +0.2V	Voltage: ≤0.1%+0.2V	Voltage: ≤0.1%+0.2V
Load Regulation of Series	Voltage: ≤0.1% +0.2V	Voltage: ≤0.1% +0.2V	Voltage: ≤0.1%+0.2V	Voltage: ≤0.1%+0.2V
CH3 Specifications	Voltage Accuracy: ±50mV Load Regulation: ±50mV	Voltage Accuracy: ±50mV Load Regulation: ±50mV	Voltage Accuracy: ±50mV Load Regulation: ±50mV	Voltage Accuracy: ±50mV Load Regulation: ±50mV
Accessories	User manual, Power cord (1.2m, 1×UK plug & 1×EURO plug)	User manual, Power cord (1.2m, 1×UK plug & 1×EURO plug)	User manual, Power cord (1.2m, 1×UK plug & 1×EURO plug), USB cord (1.2m), Software CD	User manual, Power cord (1.2m, 1×UK plug & 1×EURO plug), USB cord (1.2m), Software CD
Interfaces	-	-	USB, RS232 & LAN	USB, RS232 & LAN
Weight and Dimension (W×H×D)	7.8 kgs / 146mm×252mm×375mm	10.3 kgs / 146mm×252mm×375mm	7.88 kgs / 146mm× 252mm× 375mm	10.38 kgs / 146mm× 252mm× 375mm

Part Number Table

Description	Part Number
Tripple Channel DC Power Supply with Digital Encoder Control, 195W	72-13300
Tripple Channel DC Power Supply with Digital Encoder Control, 315W	72-13310
Tripple Channel DC Power Supplies with USB, RS232 & LAN Interfaces, 195W	72-13320
Tripple Channel DC Power Supplies with USB, RS232 & LAN Interfaces, 315W	72-13330

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