



Power Systems, Inc.

53644
53645
53646

PROGRAMMABLE DC POWER SUPPLY



Compact and high output

LCD display with back light

High program resolution

10 parameters storage

*Programmable maximum
output voltage / Power limitation*

*Over voltage / over current / over
power / over temperature protection*

Free power management software



High speed rotary knob



Numerical data entry



LCD display



Free PC control and supervision software





Main functions:

- ▶ Set up voltage
- ▶ Set up current
- ▶ Enable/disable the output
- ▶ Store parameters
- ▶ Recall parameters

Sub-functions

- ▶ Set up the maximum output voltage
- ▶ Set up the maximum output power
- ▶ Enable/disable the rotary knob
- ▶ Set up initial output state
- ▶ Save voltage setting

Specifications

| Model | 53644 | 53645 | 53646 |
|----------------------------------|---|--|--|
| Number of outputs | 1 | 1 | 1 |
| DC outputs | | | |
| Voltage | 0 to 18V | 0 to 36V | 0 to 72V |
| Current | 5A | 3A | 1.5A |
| Power(max) | 90W | 108W | 108W |
| Line Regulation | | | |
| Voltage | 0-3.999V: 0.01% + 3mV 4-18V: 0.02% + 10mV | 0-3.999V: 0.01% + 3mV 4-36V: 0.02% + 10mV | 0-3.999V: 0.01% + 3mV 4-72V: 0.02% + 10mV |
| Current | 0.02% + 8mA | 0.02% + 8mA | 0.02% + 8mA |
| Load Regulation | | | |
| Voltage | 0.02% + 20mV | 0.02% + 10mV | 0.02% + 10mV |
| Current | 0.02% + 15mA | 0.02% + 10mA | 0.02% + 8mA |
| Ripple and noise | | | |
| Voltage | <1mVrms | <1mVrms | <1mVrms |
| Current | <5mA _{rms} | <4mA _{rms} | <3mA _{rms} |
| Programming accuracy at 25°C±5°C | | | |
| Voltage | 0.1% + 20mV | 0.1% + 20mV | 0.1% + 20mV |
| Current | 0.2% + 20mA | 0.2% + 20mA | 0.2% + 20mA |
| Readback accuracy at 25°C±5°C | | | |
| Voltage | 0.2% + 20mV | 0-19.999V: 0.2% + 20mV 20-36V: 0.2% + 100mV | 0-19.999V: 0.2% + 20mV 20-72V: 0.2% + 100mV |
| Current | 0.2% + 20mA | 0.2% + 20mA | 0.2% + 20mA |
| Program resolution | | | |
| Voltage | 0-3.999V: 1mV 4-18V: 10mV | 0-3.999V: 1mV 4-36V: 10mV | 0-3.999V: 1mV 4-72V: 10mV |
| Current | 1mA | 1mA | 1mA |
| Readback resolution | | | |
| Voltage | 10mV | 0-19.999V: 10mV 20-36V: 100mV | 0-19.999V: 10mV 20-72V: 100mV |
| Current | 10mA | 10mA | 10mA |
| Protection | Over voltage / Over current / Over power / Over temperature | | |
| AC input | 110V/220Vac ±15%, 47 to 63 Hz | | |
| Operating environment | 0 to 50°C, 80% RH | | |
| Weight | 6.00kg | | |
| Dimensions | 212.6mmW x 88.1mmH x 250mmD | | |
| Software | PowerMS Power Management System software, ActiveX and DLL tools support VB, VC++, DELPHI, LABVIEW | | |
| Standard Accessories | User's manual, AC cable, handlebars | | |
| Optional Accessories | RS232 adaptor, RS485 adaptor, USB adaptor, Mounting rack | | |

Dimensions (Unit : mm)

