

**ARRAY** ARRAY ELECTRONIC CO.,LTD

3644A  
3645A  
3646A **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	3644A	3645A	3646A
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	0-3.999V: 0.01% + 3mV	0-3.999V: 0.01% + 3mV
Current	4-18V: 0.02% + 10mV	4-36V: 0.02% + 10mV	4-72V: 0.02% + 10mV
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±1-5°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±1-5°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 ±1-15%, 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)**

