



#### Introduction :

Array 364x series Power Supply is a high performance single-output programmable DC power source. It is easy to control from the front panel, or via the serial port by the computer. Up to 10 settings can be stored for later recall. The low noise, excellent regulation, and built-in voltmeter/ammeter make this reliable power supply well suited for the exact needs of design, education, test and manufacture.

#### Features:

- ◆ LCD display with backlight
- ◆ Number keypad and rotary knob
- ◆ Constant voltage & constant current mode
- ◆ Low output ripple & noise
- ◆ Output on/off
- ◆ Multifunction menu
- ◆ Maximum output voltage/power limitation
- ◆ High program resolution
- ◆ Over temperature/over current/over power protection
- ◆ 10 parameters storage
- ◆ Can be controlled by PC
- ◆ Can be connected in series and parallel to expand output voltage and current

#### Specifications:

Model	3644A	3645A	3646A
Number of outputs	1	1	1
DC outputs			
Voltage	0 ~ 18V	0 ~ 36V	0 ~ 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	<1mV rms	<1mV rms	<1mV rms
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	0-19.99V : 0.2%+20mV 20-36V : 0.2%+100mV	0-19.99V : 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	0-19.99V : 10mV 20-36V : 100mV	0-19.99V : 10mV 20-72V : 100mV
Current	10mA	10mA	10mA
Protection	Over voltage/Over current/Over power		
Interface	RS232/RS485/USB*1		
AC Input	110V/220V AC +/-15%, 47~63Hz		
Operating environment	0~50°C, 80% RH *2		
Weight	6.00kg		
Dimensions	212.6mm W x 88.1mm H x 250mm D		
Software	PowerMS Power Management System software, ActiveX and DLL tools Support VB,VC++,DELPHI,LABVIEW		
Standard accessories	User's manual, Ac cable, handlebars, software CD		
Optional accessories	RS232 adaptor, RS485 adaptor, USB adaptor, Mounting rack		