

New product

Regulated DC power supply, the PS-A series



400W type



800W type



1200W type

Model	Output rating	
	Voltage (V)	Current (A)
PS6-66A	0~6	0~66
PS6-133A	0~6	0~133
PS10-40A	0~10	0~40
PS10-80A	0~10	0~80
PS10-120A	0~10	0~120
PS20-20A	0~20	0~20
PS20-40A	0~20	0~40
PS20-60A	0~20	0~60
PS40-10A	0~40	0~10
PS40-20A	0~40	0~20
PS40-30A	0~40	0~30
PS60-6.6A	0~60	0~6.6
PS60-13.3A	0~60	0~13.3
PS60-20A	0~60	0~20



Option boards	Model
GP-IB / USB control board	IF-70GU
RS-232C control board	IF-70RS
Compatible board for the PS series (Analog control board)	IF-70PS

Outline

The PS-A series include functions of the PA series and the PSR series. Output capacity increased 10% against the previous models (360W → 400W, 720W → 800W and 1080W → 1200W). To use option boards provides digital control function (GP-IB and USB or RS-232C) without any external instruments as like the GP-600B or the PSR-600 and they can be fitted in the case of the PS-A power supply by exchanging the board from standard equipped analog control board.

Its compact size is suitable for using at limited space such as desktop and built-in, in addition, despite of the compact size, the PS-A power supply can output large capacity power with high stability. 14 models are available by the combination of three types of rating power (400W, 800W and 1200W) and five types of rating voltage (6V, 10V, 20V, 40V and 60V). The PS-A series have master slave function which controls same units in parallel up to maximum 2400W (up to 800W for 6V type) and in series (for two units) and can cover a wide range of power depending on the customers' needs.

The PS-A series are CV/CC regulated DC power supplies using switching method with power factor improvement circuit (Approx. 0.99) and they can be operated at worldwide voltage from AC100V to 240V without any setting change. The PS-A series provide risk-free operation with various protection functions (OVP, UVP and OCP for primary power circuit, OVP, OCP, OHP and remote sensing open circuit protect for secondary power circuit, and variable OVP, variable UVP and variable OCP for output circuit.)

Features

- **Four digits LED display**
The high resolution display can indicate output voltage and current values and also power value. It is easy to set voltage and current values by using “digit key” selecting a digit of the set values to be changed.
- **Three points preset memory function**
Possible to preset three kinds of voltage and current values inside for easy reading of setting values.
- **Enable to stop electric discharge of output terminals**
This function is useful for not to discharge secondary cell, not to ungold plating and so on.
- **Off timer function**
Possible to turn off output automatically after a lapse of preset time.
- **Controlling transient build-up current function**
This function enable to control current at output on and prevents current overshoot.
- **Sequence function**
Stand alone sequence operation is possible by loading maximum 1000 steps sequence program from PC into the unit through optional IF-70GU or IF-70RS interface board.
- **Master slave operation**
This function enable to operate plural same units in parallel up to 2400W (up to 800W for 6V series) and in series for two units.
- **External analog control**
The PS-A series can be controlled by external voltage or resistance for setting voltage and current values and by external contact for turning on/off output and selecting preset memory.
- **Optional remote control interface boards**
IF-70GU (GP-IB and USB), IF-70RS (RS-232C) and IF-70PS (compatible with PS series) are available.
- **Front output terminal**
Front output terminal is available and it can be used up to 20A.
- **Remote sensing**
Possible to eliminate influences of voltage drop between unit and load, which is caused by the contact resistance or the load cable conductors.
- **Various protection functions**
OVP, UVP and OCP for primary power circuit, OVP, OCP, OHP and remote sensing open circuit protect for secondary power circuit, and variable OVP, variable UVP and variable OCP for output circuit are available.
- **0.99 (TYP) power factor**
- **AC power source**
Conforms to world commercial input voltages (AC100V to AC240V) without setting change.

Specification

Model	Output rating		Ripple		Line regulation		Load regulation		Power consumption	Dimension type *	Weight kg (Approx.)
	Voltage	Current	CV	CC	CV	CC	CV	CC			
	V	A	mVrms	mArms	mV	mA	mV	mA	VA		
PS6-66A	0~6	0~66	10	120	8	125	11	125	630	Type I	3.2
PS6-133A	0~6	0~133	10	260	8	245	11	245	1250	Type II	5.3
PS10-40A	0~10	0~40	10	70	10	75	15	75	600	Type I	3.2
PS10-80A	0~10	0~80	10	160	10	150	15	150	1200	Type II	5.3
PS10-120A	0~10	0~120	10	220	10	225	15	225	1800	Type III	7.5
PS20-20A	0~20	0~20	10	40	15	41	25	41	600	Type I	3.2
PS20-40A	0~20	0~40	10	92	15	82	25	82	1200	Type II	5.3
PS20-60A	0~20	0~60	10	120	15	123	25	123	1800	Type III	7.5
PS40-10A	0~40	0~10	10	20	23	25	41	25	600	Type I	3.2
PS40-20A	0~40	0~20	10	60	23	50	41	50	1200	Type II	5.3
PS40-30A	0~40	0~30	15	80	23	75	41	75	1800	Type III	7.5
PS60-6.6A	0~60	0~6.6	10	12	35	17	65	17	550	Type I	3.2
PS60-13.3A	0~60	0~13.3	15	44	35	34	65	34	1100	Type II	5.3
PS60-20A	0~60	0~20	20	55	35	51	65	51	1650	Type III	7.5

* Dimensions (Maximum) W x H x D (mm)

Type I : 70W x 124 (139.5)H x 364 (415.5)D, Type II : 140W x 124 (139.5)H x 364 (415.5)D

Type III : 210W x 124 (139.5)H x 364 (415.5)D