

DC Power supply RF series

18V to 650V, 200W to 1.2kW

1087-02Ac-1

《 GPIB 》 《 RS-232C 》 《 RS-485 》 《 USB 》


For aging of electrical parts

For testing and aging of semiconductors, capacitors, various display devices, PCBs and electrical components.

For water treatment

For water treatment such as manufacturing ultrapure water or treating waste water.

For surface treatment

For various surface treatment such as metal plating.

Research, development and others

This model does not take much space. In the limited space like laboratory this supply saves space.

Further power-up!! Ultra compact high-power DC power supply.

Our original switching technology has realized high power, compactness and high efficiency of compact DC power supply, RF series.

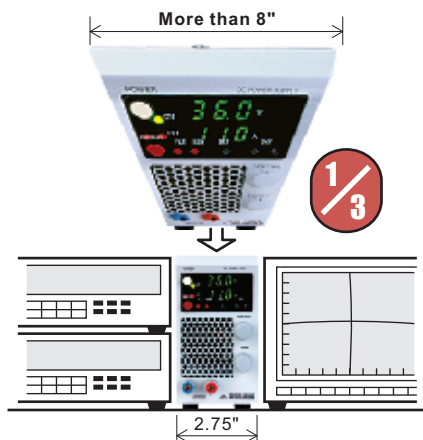
RF series, which is 1/3 of the size and 1/5 the weight of conventional power supplies, has been receiving good reputation from market. Output voltage range is as high as 650V type to meet users' diverse requirements. RF series is a ideal power supply for users who expect more power in the future or not satisfy with the present output range, or who expect better performance with less cost.

■ FEATURES

Ultra compact · Space saving

Footprint is reduced down to 1/3 of the series regulator supply that used to be the main stream of high-power power supply. This will be a merit at laboratory or production line where various testing machines are.

Also it is easy to carry as a shared power supply. No need to struggle anymore to keep a place for power supplies even when many of supplies are required.



POWER UP! 400W output

Output of RF series has been upgraded from 360W to 400W without sacrificing dimension or cost. Power supply facilities often need to be upgraded to bigger power soon after introduction because today's speed of development of electrical parts or display devices is so fast. RF series, with 10% allowance, is the best selection that eliminates the worry of having to introduce new power supplies in the near future.

Wide range of lineups

RF series has wide output range up to 650V even though this is a switching power supply, and good for such applications such as display device or capacitors, which require higher voltage. 49 models from 6V to 650V and from 200W to 1200W are in the lineup so you can select the best model for you purpose.

Complete protection circuit

RF series can be used for diverse applications from automatic line to experimental device for educational purpose because of the safe design that include over voltage protection (OVP), over temperature protection (OTP), input brownout (ACF), blackout protection and other various protection circuit.

Fully equipped with remote function!

They are equipped with status signal output that shows status of supply such as monitor for output voltage/current, operation mode of CV/CC, over voltage, over temperature, AC brownout etc. as well as remote ON/OFF, output voltage/current control and OVP setting being able to be controlled externally. Also computer control is possible by building in interface of GPIB, RS-232C, RS-485 and USB. (option) A system with integrated measuring instrument and control device can also be constructed, making it possible to speed up testing and development. It is also easy to set up a system in combination with high-voltage power supply (maximum 150kV) of Matsusada Precision.

SPECIFICATIONS

Output control	Local: Constant voltage: Front panel 10-turn potentiometer Constant current: Front panel 10-turn potentiometer
	Remote: Constant voltage: External control voltage 0Vdc to 10Vdc or external variable resistor 0Ω to 10kΩ Constant current: External control voltage 0Vdc to 10Vdc or external variable resistor 0Ω to 10kΩ
Voltage regulation	Line: 0.1% of maximum output (for AC±10% input change) Load: 0.1% of maximum output (for 0% to 100% load change)
Output display	Output voltage: 3 digit digital meter (accuracy 1%FS±1dgt) Output current: 3 digit digital meter (accuracy 1%FS±1dgt)
Monitor output	Output voltage monitor: 10V / maximum output voltage Output current monitor: 10V / maximum output current
Other functions	Remote sensing Remote switch ON/OFF (TTL or external relay) Status signal output (CV, CC, FLT)
Transient response time	Recovery time 1ms (when load change of 70%⇒100%)
Operation temperature	0°C to +50°C
Storage temperature	-40°C to +85°C
Storage humidity	0% to 80% RH (no condensation)
Dielectric voltage	<ul style="list-style-type: none"> Between input power supply and output terminal, input power supply and chassis AC1500V Models output voltage less than 350V, between output terminal and chassis DC500V Models output voltage more than 500V or more, between output terminal and chassis DC650V (for 1 minute each)

LINEUP

Output voltage (V)	Output current (A)	Output power (W)	MODEL	Ripple (mVrms)	Ripple (mA rms)
0 to 6	0 to 65	390	RF6-65	10	130
	0 to 130	780	RF6-130	10	260
	0 to 180	1080	RF6-180	15	360
0 to 10	0 to 40	400	RF10-40	10	80
	0 to 80	800	RF10-80	10	160
	0 to 120	1200	RF10-120	10	240
0 to 15	0 to 20	300	RF15-20	10	40
	0 to 26	390	RF15-26	10	60
	0 to 40	600	RF15-40	10	80
	0 to 54	810	RF15-54	10	110
	0 to 80	1200	RF15-80	10	160
0 to 20	0 to 20	400	RF20-20	10	40
	0 to 40	800	RF20-40	10	80
	0 to 60	1200	RF20-60	15	120
0 to 30	0 to 10	300	RF30-10	10	20
	0 to 13	390	RF30-13	10	30
	0 to 20	600	RF30-20	10	40
	0 to 27	810	RF30-27	10	60
	0 to 40	1200	RF30-40	15	80
0 to 36	0 to 11	400	RF36-11	10	20
	0 to 22	800	RF36-22	10	60
	0 to 33	1200	RF36-33	15	80
0 to 45	0 to 9	405	RF45-9	10	20
	0 to 14	630	RF45-14	12	30
	0 to 18	810	RF45-18	15	60
	0 to 27	1215	RF45-27	18	80
0 to 60	0 to 3.5	210	RF60-3.5	10	15
	0 to 6.6	400	RF60-6.6	10	15
	0 to 13.5	810	RF60-13.5	12	45
	0 to 20	1200	RF60-20	18	60
0 to 70	0 to 5	350	RF70-5	10	15
0 to 120	0 to 3.3	400	RF120-3.3	30	10
	0 to 6.6	800	RF120-6.6	30	20
	0 to 10	1200	RF120-10	30	25
0 to 160	0 to 2.5	400	RF160-2.5	30	5
	0 to 5	800	RF160-5	30	10
	0 to 7.5	1200	RF160-7.5	30	20
0 to 250	0 to 1.5	375	RF250-1.5	40	5
	0 to 3	750	RF250-3	50	10
	0 to 4.5	1125	RF250-4.5	50	15
0 to 350	0 to 1	350	RF350-1	35	5
	0 to 2	700	RF350-2	40	5
	0 to 3.2	1120	RF350-3.2	50	10
※ 0 to 500	0 to 0.8	400	RF500-0.8	20	5
	0 to 1.6	800	RF500-1.6	30	5
	0 to 2.4	1200	RF500-2.4	40	10
※ 0 to 650	0 to 0.6	390	RF650-0.6	50	5
	0 to 1.2	780	RF650-1.2	80	5
	0 to 1.8	1170	RF650-1.8	100	5

※ Models with no monitor output terminal on front panel.