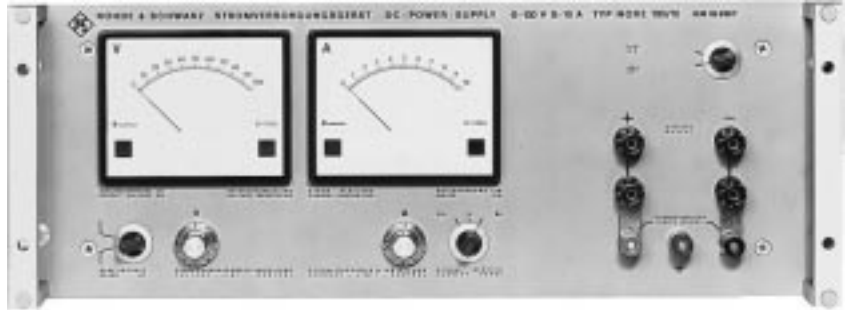


Power Supplies NGRE

19" models – from about 200 to 2000 W



NGRE in design A and B: cabinet model or rackmount, design B without operating controls (photo 24537)

Brief description

Power Supplies NGRE provide high output power (from about 200 W). This type series is extremely versatile due to the use of standardized modules.

There are 27 basic versions (see table on next page), most of which come in five models. The basic versions only differ in the obtainable maximum voltage and current values and in the output impedance.

Each of these basic versions is equipped differently regarding meters, operating controls, connectors and available as a cabinet model or rackmount.

Power Supplies of the NGRE series are designed for operation from 220 V AC supply. The power supplies can be adapted to other voltages upon request and at no extra cost.

Main features

- Sustained shortcircuit-proof, thermal overload protection
- Series and parallel connection of several units possible
- Built-in overvoltage protection (optional)

Operation

Voltage and current are set by means of high-resolution ten-turn potentiometers and indicated on separate panel meters. The power supplies are fitted with remote sensing sockets to compensate for voltage drops in the load leads. The two-stage cooling fan is thermostat-controlled and very quiet.

Setting the current ranges

NGRE models 16 and 17 for currents up to 30 A are available on request with decade current ranges, eg a 10 A unit can be set to 0.1/1/10 A.

Remote control

The following functions of models 12, 13, 16, 17 can be modified for remote control: output voltage, output current, power switch on/off/standby and control of power regulating element. Power supplies which have been modified for remote control may be operated in master-slave mode (optional). This mode, in which the output quantity is controlled by only one of the supplies involved, is especially recommended for equally splitting up the load current at high powers.

Surge current capability

Two to three times the rated current may be drawn from the NGRE Power Supplies. An external or internal (model code number ...19) switch is provided for this purpose.

Dimensions of different designs

	Cabinet model	Rackmount	Seated depth
	mm	mm	mm
Design A	484 x 194 x 436	483 x 177 x 425	347
Design B	484 x 194 x 509	483 x 177 x 498	420
Design C	608 x 394 x 284	–	–

Specifications in brief and Order Numbers

Setting ranges		Order number	Max. deviation of output for		Z _{out} for V (l)	t _r for V	Max. PARD		Power consumption at 220 V/50 Hz kVA	Available design	Weight incl. case kg
Voltage V	Current A		ΔV AC supply ±10% V, I (%)	Δt _{amb} -10 to +40 °C V, I (%)			V _{rms} μV	I _{rms} mA			
0 to 6	0 to 30	100.8402.xx	±0.001	0.01	1 (1)	<50	300 9	0.9	A, C	22	
	0 to 40	100.8419.xx	±0.001	0.01	0.1 (1)	<50	300 12	0.9	A, C	22	
	0 to 60	100.8425.xx	±0.001	0.01	0.1 (1)	<50	300 18	0.9	A, C	28	
	0 to 80	100.8431.xx	±0.001	0.01	0.1 (1)	<50	300 24	1.8	B, C	29	
0 to 10	0 to 20	100.8354.xx	±0.001	0.01	1 (2)	<50	300 6	0.9	A, C	19	
	0 to 30	100.8360.xx	±0.001	0.01	1 (2)	<50	300 9	0.9	A, C	28	
	0 to 40	100.8377.xx	±0.001	0.01	0.1 (2)	<50	300 12	1.8	A, C	28	
	0 to 60	100.8383.xx	±0.001	0.01	0.1 (1)	<50	300 18	1.8	A, C	37	
0 to 15	0 to 20	100.8319.xx	±0.001	0.01	1 (2)	<50	300 6	0.9	B, C	28	
	0 to 30	100.8325.xx	±0.001	0.01	1 (2)	<50	300 9	1.8	A, C	28	
	0 to 40	100.8331.xx	±0.001	0.01	0.1 (2)	<50	300 12	1.8	A, C	37	
	0 to 60	100.8348.xx	±0.001	0.01	0.1 (1)	<50	300 18	2.5	B, C	39	
0 to 30	0 to 10	100.8254.xx	±0.001	0.01	1 (5)	<50	300 3	0.9	A, C	19	
	0 to 15	100.8260.xx	±0.001	0.01	1 (5)	<50	300 4.5	0.9	A, C	28	
	0 to 20	100.8277.xx	±0.001	0.01	1 (3)	<50	300 6	1.8	A, C	28	
	0 to 30	100.8283.xx	±0.001	0.01	1 (2)	<50	300 9	1.8	A, C	37	
	0 to 40	100.8290.xx	±0.001	0.01	0.1 (2)	<50	300 12	2.5	B, C	39	
	0 to 60	100.8460.xx	±0.001	0.01	0.1 (2)	<50	300 18	3.5	C	50	
0 to 50	0 to 10	100.8219.xx	±0.001	0.01	1 (5)	<50	300 3	0.9	A, C	28	
	0 to 15	100.8225.xx	±0.001	0.01	1 (5)	<50	300 4.5	1.4	A, C	28	
	0 to 20	100.8231.xx	±0.001	0.01	1 (5)	<50	300 6	1.8	A, C	37	
	0 to 30	100.8248.xx	±0.001	0.01	1 (3)	<50	300 9	2.5	B, C	39	
	0 to 40	100.8454.xx	±0.001	0.01	0.1 (2)	<50	300 12	3.5	C	50	
0 to 100	0 to 5	100.8160.xx	±0.001	0.01	1 (10)	<50	500 1.5	0.9	A, C	28	
	0 to 10	100.8183.xx	±0.001	0.01	1 (10)	<50	500 3	1.8	A, C	37	
	0 to 15	100.8190.xx	±0.001	0.01	1 (5)	<50	500 4.5	2.5	A, C	39	
	0 to 20	100.8448.xx	±0.001	0.01	1 (5)	<50	500 6	3.5	C	50	

Completion of Order Numbers

Model code number (last two digits of Order No.)	Design	Voltage and current setting		Current range in three decades (up to 30 A) at extra cost	Four additional fixed voltages, pushbutton-selected	Large meters for voltage and current
		Precision potentiometer on front panel	Screwdriver adjustment on rear panel			
13	19" cabinet		●			
17		●		●		●
12	19" rackmount		●			
16		●		●		●
19	Aluminium case	●			●	●