



## ADJUSTABLE POWER SUPPLIES

*Telecom and industrial applications*



### 800W HIGH POWER DENSITY

RIEDEL adjustable power supplies is a small and lightweight high current adjustable power supply. Digital voltage and current panel meters and multi turn potentiometers makes U/I adjustment easy and accurate. Both voltage and current limit can be adjusted. If the set button is pressed, display tells the set values. A microprocessor controls supply's wealth and takes care of the device's cooling fan assuring silent working at no load and light load conditions. Electrical current limiting at the output protects power supply against short-circuits and wrong polarity



#### SCREW TERMINALS OR BANANA SOCKETS

Units can be assembled with two different rear panels.

- 6 mm<sup>2</sup> screw terminal
- 4 mm banana socket (banana: option)

Main switch with backlight is provided.

#### CONNECTING SUPPLIES IN SERIES OR PARALLEL

Adjustable unit with 800W slave units



If more power is needed adjustable power supply can be parallel or series connected via digital bus to slave unit, which equals adjustable unit but is without potentiometers and displays. Then output current/voltage is doubled and the both supplies can be still adjusted by multi turn potentiometers. The voltage display shows the output value as before. If still more current/voltage is needed then more slave units can be connected in parallel/series.

### ADJUSTABLE POWER SUPPLIES, MASTER AND SLAVE UNITS

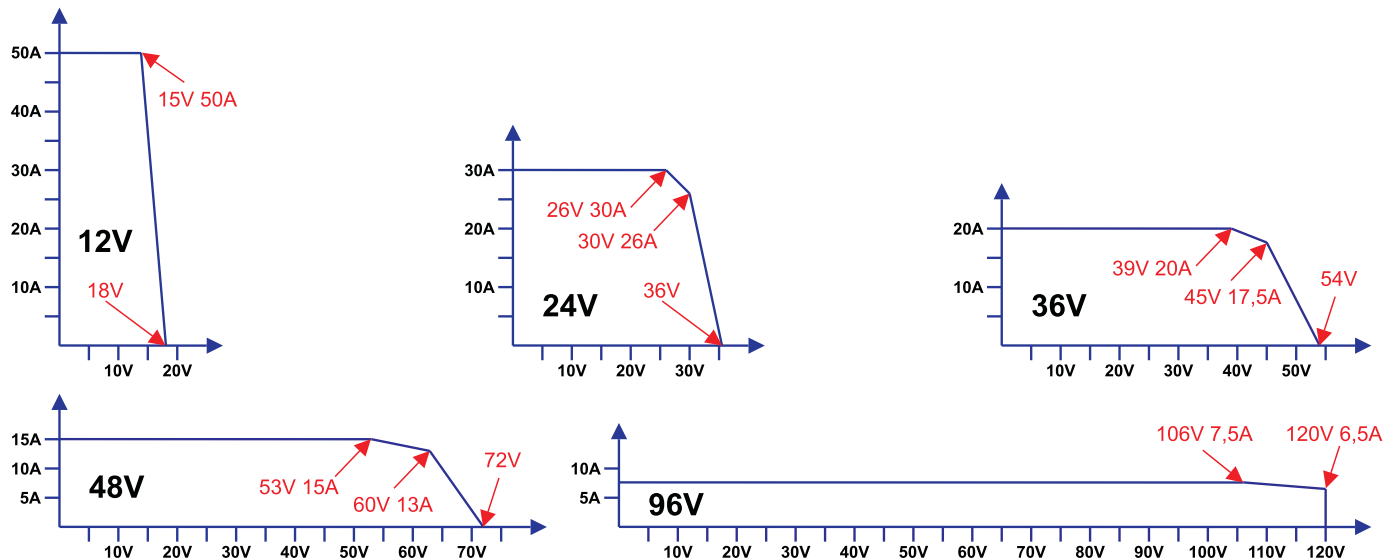
Type Master unit	Article-Number Master unit	Type Slave unit	Article-Number Slave unit	Input voltage *) in VAC	Output voltage setting range See curves	Output current limit setting See curves	Dimensions (LxWxH) in mm Bench
RADC 7160	0258-00007160	RADC 7161	0259-00007161	50...260	0-18VDC	0-50A	258 x 136 x 89
RADC 4610	0258-00004610	RADC 4611	0259-00004611	50...260	0-36VDC	0-30A	258 x 136 x 89
RADC 4615	0258-00004615	RADC 4616	0259-00004616	50...260	0-54VDC	0-20A	258 x 136 x 89
RADC 4600	0258-00004600	RADC 4601	0259-00004601	50...260	0-72VDC	0-15A	258 x 136 x 89
RADC 4605	0258-00004605	RADC 4606	0259-00004606	50...260	0-120VDC	0-7,5A	258 x 136 x 89

\*) Reduced power 50...200 VAC, see curve next page

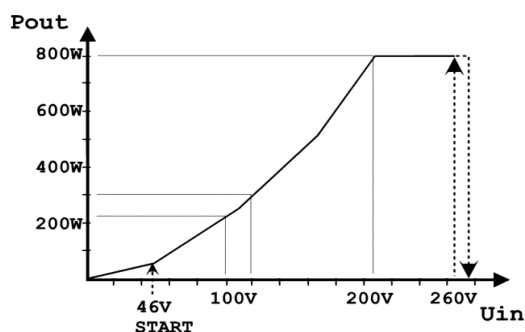


## TECHNICAL DATA

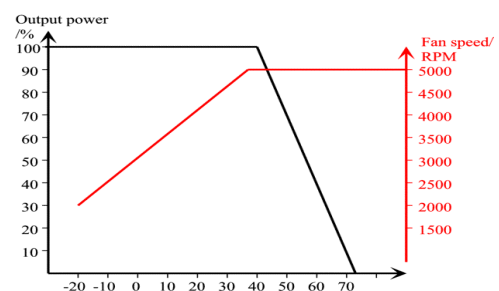
Input voltage		50...260 VAC (50...200 VAC reduced power, see curve below) 50...260 VDC/max 600W (50...200VDC reduced power)
Input current		4.5A
Power factor		>0.99
Efficiency (230VAC, 10...100% load)		85...90%
Inrush current		<30A, cold start
Line regulation		± 0.1%
Load regulation		± 0.5%
Output setting accuracy		± 0.1%
Output ripple (f > 50Hz)		<50mVrms
Hold up time		> 5ms
Status LED indication	Yellow led	Power OK
Isolations	Input - chassis	12V models 1500VAC, other models 3750VAC
	Input - output	3750VAC
	Output - chassis	500VAC
Standards	Safety	EN60335-2-29 +A2
	EMC	EN55022B, EN50081-1, EN50082-2
Markings		CE
Protection class	Mechanical	IP21 metal enclosure
	Electrical	12V models / Class I, other models / Class II
Dimensions		258 x 136 x 89 mm
Weight		1,6kg with cables
Mounting		Bench
Cooling		Temperature controlled fan
Operating temperature range	Full power	-25°C...+50°C
	Reduced power	+50...+ 70°C, see curve below



### Nominal output voltage / current characteristics



Output power / input voltage derating curve



Output power and fan speed vs ambient temperature