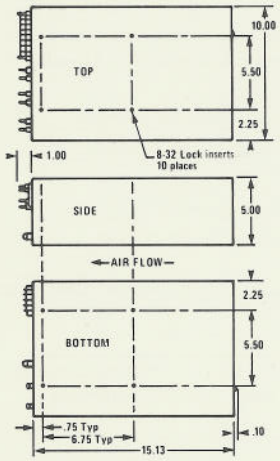
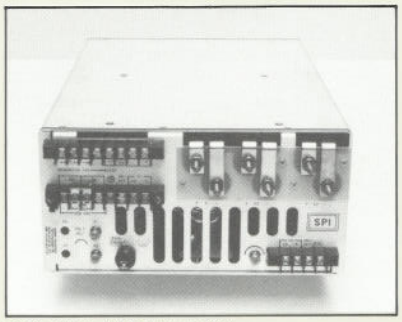
High current, multiple output DC Power Systems for mainframe applications

1400 Watts

RS, up to 225 amps
up to 5 outputs





208/230 VAC INPUT

How to design your RS system – Type One

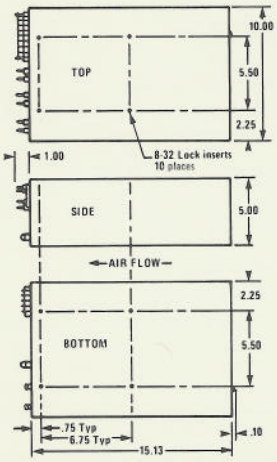
Determine the number of DC outputs required;
RSD (Dual) RST (Triple) RSQ (Quad) RSF (Quint)
maximum total power is 1400 watts.
Output no. 1 is designated H
2 to 24 VDC, max. of 225 Amps or 1100 Watts.
Output no. 2 is designated HH
5 to 24 VDC, max. of 75 Amps or 375 Watts.
Output no. 3 is designated M
5 to 24 VDC, max. of 10 Amps or 120 Watts.
Output no. 4 is designated L
5 to 24 VDC, max. of 5 Amps or 75 Watts.
Output no. 5 is designated L
5 to 24 VDC, max. of 5 Amps or 75 Watts.
Example: A Quint output system requiring 5 VDC @ 200 Amps, 12 VDC @ 20 Amps, 12 VDC @ 10 Amps, 5 VDC @ 3 Amps, 5 VDC @ 5 Amps would be:

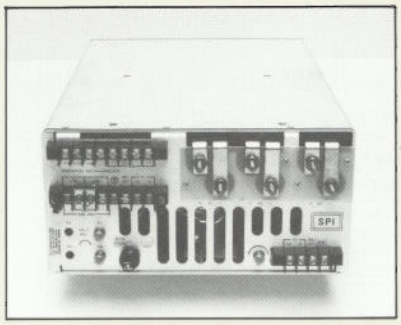
RSF 5HC 12HHC 12M 5L 5L

- RSF — Quint output
- 5HC — 5VDC no. 1 output
- 12HHC — 12VDC no. 2 output
- 12M — 12VDC no. 3 output
- 5L — 5VDC no. 4 output
- 5L — 5VDC no. 5 output

1400 Watts

RS, up to 150 amps
up to 5 outputs





208/230 VAC INPUT

How to design your RS system – Type Two

Determine the number of DC outputs required;
RSD (Dual) RST (Triple) RSQ (Quad) RSF (Quint)
maximum total power is 1400 watts.
Output no. 1 is designated H
2 to 24 VDC, max. of 150 Amps or 750 Watts.
Output no. 2 is designated HH
5 to 24 VDC, max. of 75 Amps or 375 Watts.
Output no. 3 is designated HHH
5 to 24 VDC, max. of 75 Amps or 375 Watts.
Output no. 4 is designated L
5 to 24 VDC, max. of 5 Amps or 75 Watts.
Output no. 5 is designated L
5 to 24 VDC, max. of 5 Amps or 75 Watts.
Example: A Quad output system requiring 5 VDC @ 150 Amps, 5 VDC @ 75 Amps, 12 VDC @ 20 Amps, 24 VDC @ 3 Amps would be:

RSQ 5HC 5HHC 12HHHC 24L

- RSQ — Quad output
- 5HC — 5VDC no. 1 output
- 5HHC — 5VDC no. 2 output
- 12HHHC — 12VDC no. 3 output
- 24L — 24VDC no. 4 output



Electrical specifications and features – RS series

RS

AC INPUT

NOMINAL	200/208/220/230/240
OPERATING RANGE	165 to 256VAC or 180 to 264VAC. 115V operation limited to 1000 watt output rating. Input range is Barrier Block changeable.
FREQUENCY	47 to 63 Hz.: single phase
INRUSH CURRENT	Peak cold start inrush current is limited to 100 amps when operating at 115 VAC and 160 amps when operating at 230 VAC. Duration of peak current is less than 4 msec.
FUSING	All models incorporate ceramic body fuses rated 250V. Fuse is instantaneous type. Replacement ratings are as follows: RS series all models – 20A/250V.
TURN ON TIME	Turn on time is less than 200 msec, typical for AC application and less than 200 msec after on-off remote activation.

DC OUTPUT

REGULATION (Main Output) V1, V2, V3	±.5% for 10 to 100% load changes. ±.5% for ±15% line changes around nominal 115/230 VAC.
REGULATION (Secondary Regulated) Outputs V4, V5 – see model.	±.25% for 10 to 100% load changes. ±.25% for ±15% line changes around nominal 115/230 VAC.
CROSS REGULATION V4, V5	25% minimum load is required on V1 to maintain regulation on V4 and V5 at full load on these outputs. If full load is not required on secondary outputs and a proportioned load is used, the 25% minimum current may be relaxed.

GENERAL FEATURES

RIPPLE (47Hz to 100kHz)	50 MV peak to peak.
NOISE (100kHz to 50mHz)	50 MV peak to peak.
RIPPLE & NOISE (47Hz to 50mHz)	100 MV peak to peak.
TRANSIENT RESPONSE V1	Output maximum excursion of ±5% for 25% load. Step recovery in less than 500 msec.
TRANSIENT RESPONSE V2, V3 (Regulated Outputs) V3, V4	±2% for 25% output load step. Recovery in less than 500 msec.
OVERLOAD PROTECTION V1, V2, V3, V4, V5	All outputs are overload protected. V1 main output is set at 120 to 160% of rated output. Output fold back to 60% of output load typical.
SHORT CIRCUIT PROTECTION	All outputs are short circuit protected. Current is limited to 60% of maximum rated current.
OVERVOLTAGE PROTECTION V1	Overvoltage protection is standard for this output and is a voltage clamp set at 20 to 30% above the nominal output voltage. This protective feature gives user protection while avoiding nuisance trips in the field. Automatically resets. Optional shut down is available.
OVERTEMPERATURE PROTECTION	Unit shuts down when temperature exceeds a maximum safe value.
OVERSHOOT (all outputs)	No turn-on or turn-off overshoot.
REVERSE VOLTAGE PROTECTION V1	Protected for reverse voltage up to rated voltage and current.
REMOTE SENSE (V1, V2, V3 outputs)	Remote sense of up to 1.2 volts or 10% of output. Senses for cables or redundant diodes.
REMOTE ON-OFF (all outputs)	Barrier block or internal connector available for remote on-off supply control.
AC LOSS RIDE THROUGH	All outputs will remain in regulation for 20 msec, during removal of input AC when operating at nominal AC input. 30 msec @ 80% rating, 50 msec @ 60% rating. All measured from nominal input.

ENVIRONMENTAL

OPERATING TEMPERATURE	0° to 50° full output. 0° to 75° with derating 2%/C° above 50°C. Cooling air is required above 50°C, or when using units above specified maximum ratings.
STORAGE TEMPERATURE	–20° to +85°C.
TEMPERATURE COEFFICIENT	.02%/°C.
STABILITY V1, V2, V3, V4, V5	.5% for 8 hr. period following an initial 1 hour warm up.
COOLING	Internal fan provides cooling air flow. Air exits terminal end.
HUMIDITY	Up to 95% R.H. non-condensing.
EMI	Internal filters available to FCC, VDE specifications. Please consult factory.
SAFETY (all units) UL, CSA, TUV	UL File E-69760, CSA File LR-50228, TUV Licenses – RS Series Geprueft Nach: DIN IEC 380/VDE 0806/8.81
SIZE	5" x 10" x 15.35"
WEIGHT	RS – 23.5 lbs.