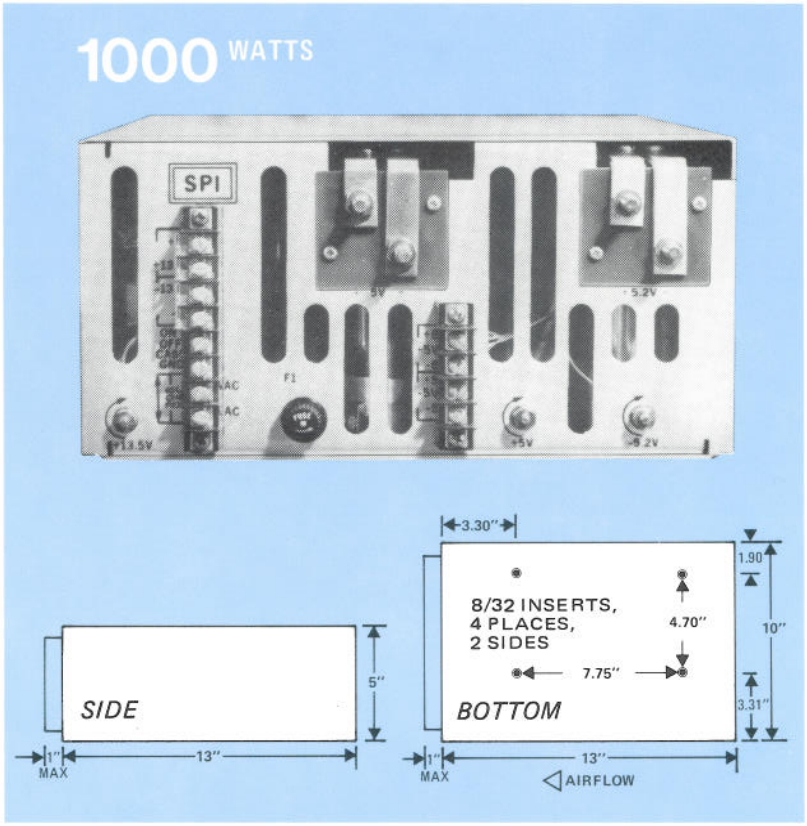
DS

SWITCHING POWER'S EFFICIENT DS SERIES REDUCES COST, SIZE AND HEAT IN REGULATED POWER SYSTEMS.

DS SERIES OFFERS MEDIUM SIZE DIGITAL SYSTEMS INCREASED PERFORMANCE, DEPENDABLE SERVICE AND ADDED FLEXIBILITY.



DS SERIES PROVIDES:

- ALL OUTPUTS ISOLATED
- SLOW TURN ON
- SHORT CIRCUIT PROOF
- OVERVOLTAGE PROTECTION
- SELFCONTAINED BLOWER
- EASY SYSTEM INSTALLATION
- UP TO FOUR OUTPUTS

HOW TO DESIGN YOUR DYNAMIC SYSTEM:

A) Determine the number of DC outputs required;
DSD (Dual) DST (Triple) DSQ (Quad)
Maximum total power is 1000 Watts

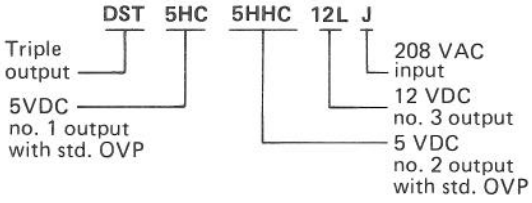
B) ▪ Output no. 1 is desinated H
2, 5, 6, 12, 15 or 24 VDC, maximum of 130 amps or 650 watts

▪ Output no. 2 is designated HH
2, 5, 6, 12, 15 or 24 VDC, maximum of 75 amps or 375 watts as a dual, maximum of 60 amps or 300 watts as part of a triple or quad unit.

▪ Output no. 3 is designated L
5, 6, 12, 15, 20 or 24 VDC, maximum of 5 amps or 75 watts as a triple, maximum of 3 amps or 36 watts as part of a quad.

▪ Output no. 4 is designated L
5, 6, 12, 15, 20 or 24 VDC, maximum of 3 amps or 36 watts

C) Example: A triple output system requiring 5 VDC @ 120 watts, 5 VDC @ 60 amps and 12 VDC @ 5 amps, 208 VAC input would be:



DYNAMIC SYSTEMS SINGLE UNIT PRICING

DSD (DUAL OUTPUT)	$ 999.00
DST (TRIPLE OUTPUT)	1039.00
DSQ (QUAD OUTPUT)	1079.00

OEM DISCOUNTS AVAILABLE TO VOLUME USERS



SWITCHING POWER, INC.
REGULATED DC POWER

EAST COAST: 516 / 981-7231
WEST COAST: 209 / 835-5764

SPECS & FEATURES

SPECIFICATIONS

- OPERATING TEMPERATURE
  0°C to 50°C at 100% of rating for each 1°C rise in ambient above 50°C derate current 2% (to 70°C)
- STORAGE TEMPERATURE
  –40°C to +85°C
- TEMPERATURE COEFFICIENT
  less than 0.02% output voltage change per degree centigrade change in ambient from 0 to 50°C
- STABILTY
  less than 0.1% output voltage change after 8 hours
- LINE REGULATION
  ±0.25% for line changes of ±10%
- LOAD REGULATION
  ±0.25% for line changes of 90% (multiple output units require a 50 watt load on primary output (H) to maintain voltage on other outputs)
- RIPPLE AND NOISE
  50 MV peak to peak maximum measured through 50 MHZ bandwidth
- TRANSIENT RESPONSE
  5% maximum excursion for 50% load change, recovery to regulation band in 400 micro-seconds (Typical)
- REMOTE SENSING
  remote sense capability provided on output number 1 to compensate for up to .25 volt drop in DC distribution bus (decoupling or storage capacitors at load may be required for high frequency load changes)

AC INPUT

SV–450 WATT SYSTEM
FS–375 WATT SYSTEM
CS–425 WATT SYSTEM
WFO–200 WATT SYSTEM

These models have Dual AC input 90-132 / 180-256VAC, 47-63HZ (Field changeable)

SV–800 + 1100 WATT SYSTEMS
ES–650 WATT SYSTEM
DS–1000 WATT SYSTEM

AC Input as specified
B: 220VAC,
J: 208VAC,
K: 115VAC
+10% –20%

PROTECTIVE FEATURES

- EMI FILTER
  surpresses electromagnetic interference from AC rectification and inverter switching
- AC INPUT PROTECTION
  line fuse
- THERMAL PROTECTION
  automatic self resetting thermostat shuts down power supply when over temperature conditions occur
- DC RIDE THROUGH
  outputs will remain within regulation band for 20 milliseconds following loss of nominal AC
- SHORT CIRCUIT PROTECTION
  all outputs fold back when an overload condition occurs, selfrestoring when overload is corrected. Constant current limiting is also available
- OVERVOLTAGE PROTECTION
  overvoltage shutdown is provided on no.1 output (H + HH, when used) and is available as an option on all other outputs
- SURGE CURRENT PROTECTION
  AC inrush current limited to 2½ times normal current when averaged for one cycle (typical)

PHYSICAL DATA

- AC INPUT CONNECTIONS
  heavy duty terminal strip, 3/8" spacing DC output connections
- DC OUTPUT CONNECTIONS
  1/4 x 20 studs or heavy duty terminal strip, 3/8" spacing
- VOLTAGE ADJUSTMENT
  voltage adjustment potentiometers (±5% adjustment range) all units except WFO-T, which has only two pot adjustments

OPTIONS AVAILABLE

- FUNGUS PROOFING
  A: Mil-V-173 varnish for all models
- OVERVOLTAGE PROTECTION
  C: is standard on main output (H+HH) available as an option for all other DC outputs
- REMOTE ON/OFF
  R: with respect to main output (H) return stud, a +2 to +7 volt signal will shut off system
- EMI INPUT FILTER
  V: filter available to meet VDE 0875 curve N