

MLPS-1000-RK

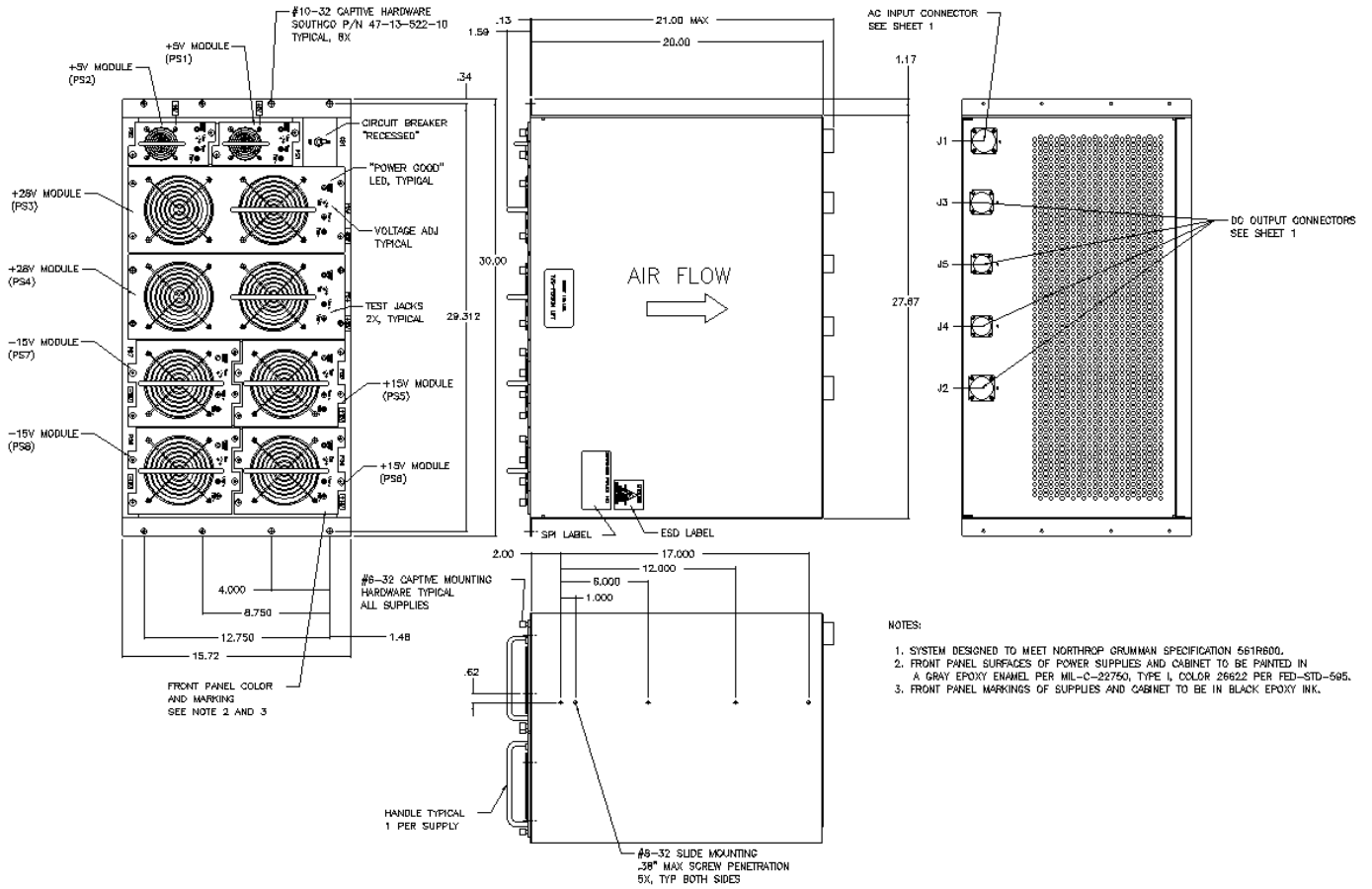


FEATURES:

- Custom multi-level power supply (MLPS) specifically developed for the Receiver portion of a radar system. Converts 115V, three (3) phase, 47-63Hz five (5) wire AC input to 15 outputs with redundancy (15 outputs, 1000 watts).
- Hot Swap using Linear plug-in modules to achieve output ripple voltages less than 1mVrms.
- Active Inrush current protection provided to limit the peak value of the input line current to less than 20Apk.
- Greater than 0.9 power factor at full load.
- Operating ambient temperature from -20°C to +65°C up to 15,000ft.(Derate 2°C/1000ft above 5000ft.)
- Designed using the guidelines of MIL-HDBK-5400.
- High reliability parts used with temp ranges from -40°C to +125°C yielding a MTBCF of greater than 50,000hrs at 35°C calculated per MIL-HFBK-217F using a Ground Fixed (GF) environment.
- Voltage test points and adjustability provided on the front panel of the individual modules.
- Humidity up to 95% condensing.
- Designed to operate in a salt atmosphere per guideline 4 of MIL-HDBK-5400.
- Active current share provided between redundant modules.
- Easy Input/Output connections provided.
- N+1 Redundancy provided with integral “ORing” Diodes within the modules.
- LED’s to indicate power supply status.
- Over temperature, over voltage, over load and short circuit protection.
- Internal filtering to meet MIL-STD-461 conducted and radiated requirements.
- Switches, handles, labels and markings per customer requirements.

Consult factory for additional specifications.

MLPS-1000-RK



- NOTES:
1. SYSTEM DESIGNED TO MEET NORTHROP GRUMMAN SPECIFICATION 561R600.
 2. FRONT PANEL SURFACES OF POWER SUPPLIES AND CABINET TO BE PAINTED IN A GRAY EPOXY ENAMEL PER MIL-C-22750, TYPE 1 COLOR 26622 PER FED-STD-595.
 3. FRONT PANEL MARKINGS OF SUPPLIES AND CABINET TO BE IN BLACK EPOXY INK.

J1	
MS3452W24-10P	
MATES WITH	
MS3456W24-10S	
PIN #	SIGNAL
A	PHASE A
B	PHASE B
C	PHASE C
D	NEUTRAL (N)
E	SPARE
F	CHASSIS
G	SPARE

J2	
MS3452W24-20S	
MATES WITH	
MS3456W24-20P	
PIN #	SIGNAL
A	+15V/6A
B	+15V RTN
C	-15V/6A
D	-15V RTN
E	SPARE
F	SPARE
G	SPARE
H	SPARE
J	SPARE
K	SPARE
L	SPARE

J3	
MS3452W22-14S	
MATES WITH	
MS3456W22-14P	
PIN #	SIGNAL
A	+15V/6A
B	+15V RTN
C	+15V SENSE
D	+15V SENSE RTN
E	-15V/6A
F	-15V RTN
G	-15V SENSE
H	-15V SENSE RTN
J	+28V/2A
K	+28V RTN
L	+28V SENSE
M	+28V SENSE RTN
N	+5V/8A
P	+5V RTN
R	+5V SENSE
S	+5V SENSE RTN
T	SPARE
U	SPARE
V	SPARE

J4	
MS3452W20-29S	
MATES WITH	
MS3456W20-29P	
PIN #	SIGNAL
A	+5V/0.5A
B	+5V RTN
C	+15V/0.5A
D	+15V RTN
E	-15V/1A
F	-15V RTN
G	+28V/2A
H	+28V RTN
J	SPARE
K	SPARE
L	SPARE
M	SPARE
N	SPARE
P	SPARE
R	SPARE
S	SPARE
T	SPARE

J5	
MS3452W18-1S	
MATES WITH	
MS3456W18-1P	
PIN #	SIGNAL
A	+28V/2.5A
B	+28V RTN
C	+28V/2.5A
D	+28V RTN
E	+28V/2.5A
F	+28V RTN
G	+28V/2.5A
H	+28V RTN
I	SPARE
J	SPARE