

**GENERAL SPECIFICATIONS FOR LINEARS
WORLDWIDE AC INPUT CAPABILITIES:**
100/120/220/230/240 VAC
**MEETS DOMESTIC AND FOREIGN SAFETY
STANDARDS:**
UL, CSA, IEC, VDE, BPO, ECMA, CEE
**77 MODELS... 6 TO 280 WATTS
UP TO 4 FULLY REGULATED OUTPUTS
0.05% REGULATION
LOW OUTPUT RIPPLE
POPULAR INDUSTRY STANDARD PACKAGES**

CERTIFIED TO:
VDE 0806
**IEC 380
DESIGNED TO MEET**
VDE 0804 IEC 435
VDE 0805 IEC 950
**UL RECOGNIZED, CSA CERTIFIED
VDE CONSTRUCTION
2 HOUR BURN-IN
2 YEAR WARRANTY
MADE IN THE U.S.A.**

INTERNATIONAL SERIES LINEARS - SINGLE OUTPUT

MODEL	VOLTAGE/ CURRENT	CASE SIZE	PRICE	MODEL	VOLTAGE/ CURRENT	CASE SIZ
HA5-1.5/OVP-A*	5V @ 1.5A	4.87" X 4" X 2.10"	\$34.66	HB24-1.2-A	24V @ 1.2A#	4.87" X 4" X 2.10"
HB5-3/OVP-A*	5V @ 3A#	4.87" X 4" X 2.10"	36.56	HC24-2.4-A	24V @ 2.4A#	5.62" X 4.87" X 2.95"
HC5-6/OVP-A*	5V @ 6A#	5.62" X 4.87" X 2.95"	57.42	HN24-3.6-A	24V @ 3.6A#	7" X 4.87" X 3.20"
HN5-9/OVP-A*	5V @ 9A#	7" X 4.87" X 3.20"	78.32	HD24-4.8-A	24V @ 4.8A#	9" X 4.87" X 3.28"
HD5-12/OVP-A*	5V @ 12A#	9" X 4.87" X 3.28"	88.77	HE24-7.2-A	24V @ 7.2A#	14" X 4.87" X 3.53"
HE5-18/OVP-A*	5V @ 18A#	14" X 4.87" X 3.53"	131.00	F24-12-A**	24V @ 12A#	16.75" X 4.88" X 5"
F5-25/OVP-A*	5V @ 25A#	16.75" X 4.88" X 5"	184.51			
G5-35/OVP-A*	5V @ 35A#	16.75" X 4.88" X 5"	247.81			
CP197-A*	5V @ 50A#	16.75" X 4.88" X 5"	275.78			
HA15-0.9-A	12V @ .09A	4.87" X 4" X 2.10"	32.13	HA24-05-A	28V @ 0.5A	4.87" X 4" X 2.10"
HB12-1.7-A	12V @ 1.7A#	4.87" X 4" X 2.10"	34.43	HB28-1-A	28V @ 1A#	4.87" X 4" X 2.10"
HC12-3.4-A	12V @ 3.4A#	5.62" X 4.87" X 2.95"	52.20	HC28-2-A	28V @ 2A#	5.62" X 4.87" X 2.95"
HN12-5.1-A	12V @ 5.1A#	7" X 4.87" X 3.20"	73.10	HN28-3-A	28V @ 3A#	7" X 4.87" X 3.20"
HD12-6.8-A	12V @ 6.8A#	9" X 4.87" X 3.28"	83.55	HD28-4-A	28V @ 4A#	9" X 4.87" X 3.28"
HE12-10.2-A	12V @ 10.2A#	14" X 4.87" X 3.53"	114.90	HE28-6-A	28V @ 6A#	14" X 4.87" X 3.53"
F15-15-A**	12V @ 16A#	16.75" X 4.88" X 5"	184.51	F24-12-A**	28V @ 10A#	16.75" X 4.88" X 5"
HA15-0.9-A	15V @ 0.9A	4.87" X 4" X 2.10"	32.13	HB48-0.5-A	48V @ 0.5A	4.87" X 4" X 2.10"
HB15-1.5-A	15V @ 1.5A#	4.87" X 4" X 2.10"	35.64	HC48-1-A	48V @ 1A	5.62" X 4.87" X 2.95"
HC15-3-A	15V @ 3A#	5.62" X 4.87" X 2.95"	52.20	HD48-3-A	48V @ 3A#	9" X 4.87" X 3.28"
HN15-4.5-A	15V @ 4.5A#	7" X 4.87" X 3.20"	73.10	HE48-4-A	48V @ 4A#	14" X 4.87" X 3.53"
HD15-6-A	15V @ 6A#	9" X 4.87" X 3.28"	83.55			
HE15-9-A	15V @ 9A#	14" X 4.87" X 3.53"	114.90			
F15-15-A**	15V @ 15A#	16.75" X 4.88" X 5"	184.51			

DUAL OUTPUT

MODEL	OUTPUT # 1	OUTPUT # 2	CASE SIZE
HAA5-1.5/OVP-A	+5V @ 1.5A*	-5V @ 1.5A*	6.5" X 4" X 2.10"
HBB5-3/OVP-A	+5V @ 3A*	-5V @ 3A*	7" X 4.88" X 2.95"
HCC5-6/OVP-A	+5V @ 6A*#	-5V @ 6A*#	9.38" X 4.87" X 3.28"
HAD12-0.4-A	+12V @ 0.4A&	-12V @ 0.4A&	4.87" X 4" X 2.10"
HAD15-0.4-A	+15V @ 0.4A&	-15V @ 0.4A&	4.87" X 4" X 2.10"
HAA15-0.8-A	+12V @ 1A OR +15V @ 0.8A#	-12V @ 1A OR -15V @ 0.8A OR -5V @ 0.4A#	6.5" X 4" X 2.10"
HBB15-1.5-A	+12V @ 1.7A OR +15V @ 1.5A#	-12V @ 1.7A OR -15V @ 1.5A OR -5V @ 0.7A#	7" X 4.88" X 2.95"
HCC15-3-A	+12V @ 3.4A OR +15V @ 3A#	-12V @ 3.4A OR -15V @ 3A#	9.38" X 4.87" X 2.95"
HDD15-5-A	+12V OR +15V @ 5A#	(-)12V OR 15V @ 5A#	14" X 4.87" X 3.53"
HAA24-0.6-A	+18-20V @ 0.4A OR +24V @ 0.6A	(-)18-20V @ 0.4A OR -24V @ 0.6A	6.5" X 4" X 2.10"
HBB24-1.2-A	+18-20V @ 0.9A OR +24V @ 1.2A	(-)18-20V @ 0.9A OR -24V @ 1.2A	7" X 4.88" X 2.95"
HCC24-2.4-A	+18-20V @ 1.8A OR +24V @ 2.4A#	(-)18-20V @ 1.8A OR -24V @ 2.4A#	9.38" X 4.87" X 3.28"
HAA512-A	5V @ 2A*\$	12-15V @ 0.5A	6.5" X 4" X 2.10"
HBB512-A	5V @ 3A*#\$	12-15V @ 1.25A#	7" X 4.88" X 2.95"
HCC512-A	5V @ 6A*#\$	12-15V @ 2.5A#	9.38" X 4.87" X 3.28"

* Overvoltage protection provided. Set at 6.2V ± 0.4V.

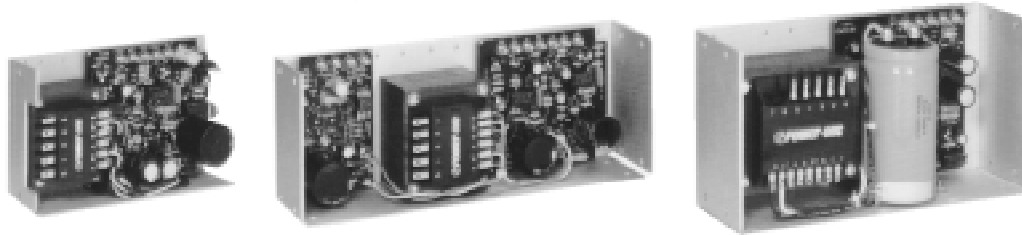
Remote sense provided.

** Adjustable outputs: F15-15A - 12-15V F24-12a - 24-28V.

& Nonadjustable 3 terminal regulator.

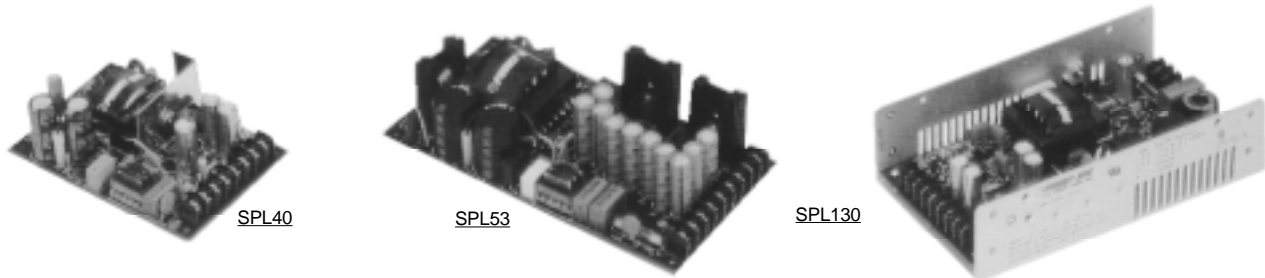
\$ Isolated outputs, can be referenced as + or -.

INTERNATIONAL SERIES LINEARS - TRIPLE OUTPUT



MODEL	OUTPUT # 1	OUTPUT # 2	OUTPUT # 3	CASE SIZE
HTAA-16W-A	5V @ 2A*x	+12 TO 15V @ 0.4A	-12 TO 15V @ 0.4A OR -5V @ 0.4A	6.5" x 4" x 2.10"
HBAA-40W-A	5V @ 3A*#x	+12V @ 1A OR +15V @ 0.8A#	-12V @ 1A OR -15V @ 0.8A OR -5V @ 0.4A#	10.25" x 4" x 2.95"
HCAA-60W-A	+5V @ 6A*#	+12 TO 15V @ 1A	(-)12 TO 15V @ 1A OR -5V @ 0.4A	9" x 4.87" x 3.28"
HCBB-75W-A	5V @ 6A*#x	+12V @ 1.7A OR +15V @ 1.5A#	-12V @ 1.7A OR -15V @ 1.5A OR -5V @ 0.7A#	11" x 4.87" x 3.28"
CP131A	5V @ 8A*#x	+12V @ 1.7A OR +15V @ 1.5A#	-12V @ 1.7A OR -15V @ 1.5A OR -5V @ 0.7A#	11.00" x 4.87" x 3.20"
HDBB-105W-A	5V @ 12A*#x	+12V @ 1.7A OR +15V @ 1.5A#	-12V @ 1.7A OR -15V @ 1.5A OR -5V @ 0.7A#	14.25" x 4.87" x 3.38"
HDCC-150W-A	5V @ 12A*#x	+12V @ 3.4A OR +15V @ 3A#	-12V @ 3.4A OR -15V @ 3A#	15.00" x 4.88" x 4.55"

INTERNATIONAL SERIES SWITCHERS - SPL SERIES



WORLDWIDE AC INPUT: 90 - 132 / 180 - 264 VAC, USER-SELECTABLE UP TO 5 TIGHTLY REGULATED OUTPUTS
VDE CONSTRUCTION
 MEETS DOMESTIC AND INTERNATIONAL SAFETY:
 3750 VAC ISOLATION
 VDE SAFETY SPACINGS
 MEETS DOMESTIC AND INTERNATIONAL EMI:
 FCC DOCKET 20780 CLASS A
 VDE 087/6.78 CLASS A

TUV CERTIFIED TO:
 VDE 0806IEC 380
 DESIGNED TO MEET:
 VDE 0804 IEC 435
 VDE 0805 IEC 950
 UL RECOGNIZED, CSA CERTIFIED
 FULL LOAD BURN-IN AND THERMAL CYCLING
 2 FULL YEAR WARRANTY
 MADE IN U. S. A.

SPL SERIES - SINGLE OUTPUT MODELS

MODEL	POWER CONTINUOUS	VOLTAGE	CURRENT	LINE REGULATION	LOAD REGULATION	SIZE
SPL53-1005	80	5V	16A	±0.3%	±1%	8.25" x 4.25" x 2.10"***
SPL130-1005	140	5V	26A	±0.3%	±1%	8.90" x 5" x 2.45"****
SPL250-1005	250	5V	50A	±0.3%	±1%	12" x 4.94" x 2.45"****
SPL53-1012	80	12V-15V*	6.7A/5.3A	±0.3%	±1%	8.25" x 4.25" x 2.10"***
SPL130-1012	130	12V-15V*	11A/9A	±0.3%	±1%	8.90" x 5" x 2.45"****
SPL250-1012	250	12V-15V*	21A/17A	±0.3%	±1%	12" x 4.94" x 2.45"****
SPL53-1024	80	24V-28V*	3.3A/2.8A	±0.3%	±1%	8.25" x 4.25" x 2.10"***
SPL130-1024	140	24V-28V*	5.5A/4.5A	±0.3%	±1%	8.90" x 5" x 2.45"****
SPL250-1024	250	24V-28V*	10A/7A	±0.3%	±1%	12" x 4.94" x 2.45"****

*Models with adjustable voltages have current ratings expressed as current at lowest voltage/current at highest voltage.
 ** Board Only.
 ***U-Channel Chassis.

SPL SERIES - MULTIPLE OUTPUT MODELS

MODEL	POWER/WATTS		VOLTAGE	CURRENT	INITIAL SETTING TOLERANCE	LINE REGULATION	LOAD REGULATION	CROSS REGULATION	SIZE
	CONTINUOUS	PEAK							
SPL40 -4000	40	N/A	+5V +12V -12V -5V	5A 0.5A 0.5A 0.5A	ADJ-NOTE A ±4%-NOTE B ±4%-NOTE B ±4%-NOTE B	±0.3% ±0.1% ±0.1% ±0.1%	±1% ±1% ±1% ±1%	N/A N/A N/A N/A	6.30" x 3.92" x 2" BOARD ONLY
SPL50 -3200	50	60	+5V +12V -12V	6A 2A/4A pk 0.5A	ADJ-NOTE A ±5%-NOTE C ±10%-NOTE C	±0.3% ±0.3% ±0.3%	±1% ±3% ±5%	N/A ±5% ±10%	6.30" x 3.92" x 2" BOARD ONLY
SPL53 -4000	80	N/A	+5V-NOTE G +12V-NOTE G -12V -5V	8A 2.5A/5A pk 0.6A 0.6A	ADJ-NOTE A ADJ-NOTE D ±4%-NOTE B ±4%-NOTE B	±0.3% ±0.1% ±0.1% ±0.1%	±1% ±1% ±1% ±1%	N/A N/A N/A N/A	8.25" x 4.25" x 2.10" BOARD ONLY
SPL53 -4101	80	N/A	+5V +12V -12V +24V	8A 1.2A 0.6A 1.5A/3A pk	ADJ-NOTE A ±4%-NOTE B ±4%-NOTE B ±4%-NOTE C	±0.3% ±0.1% ±0.1% ±0.5%	±1% ±1% ±1% ±5%	N/A N/A N/A ±5%	8.25" x 4.25" x 2.10" BOARD ONLY
SPL53 -4102	80	N/A	+5V +12V +12V -12V	8A 1.2A 2.5A/5A pk 0.6A	ADJ-NOTE A ±4%-NOTE B ±5%-NOTE C ±4%-NOTE B	±0.3% ±0.1% ±0.5% ±0.1%	±1% ±1% ±5% ±1%	N/A N/A ±5% N/A	8.25" x 4.25" x 2.10" BOARD ONLY
SPL130 -4000	120	135	+5V +12V -12V -5V	22A 3A 1.5A 1.5A	ADJ-NOTE A ADJ-NOTE D ±4%-NOTE B ±4%-NOTE B	±0.3% ±0.1% ±0.1% ±0.1%	±1% ±1% ±1% ±1%	N/A N/A N/A N/A	10.50" x 5" x 2.45" U-CHANNEL CHASSIS
SPL130 -4100P	130	150	+5V +12V-AUX 1 +12V -12V	20A-NOTE E 4A/6A pk 1.5A 1.5A	ADJ-NOTE A ±5%-NOTE C ±4%-NOTE B ±4%-NOTE B	±0.3% ±0.5% ±0.1% ±0.1%	±1% ±5% ±1% ±1%	N/A ±5% N/A N/A	10.50" x 5" x 2.45" U-CHANNEL CHASSIS
SPL130 -4101P	130	150	+5V +12V -12V +24V-AUX 1	20A-NOTE E 1.5A 1.5A 2A/4A pk	ADJ-NOTE A ±4%-NOTE B ±4%-NOTE B ±5%-NOTE C	±0.3% ±0.1% ±0.1% ±0.5%	±1% ±1% ±1% ±5%	N/A N/A N/A ±5%	10.50" x 5" x 2.45" U-CHANNEL CHASSIS
SPL200 -4100P	200	250	+5V +12V-AUX 1 -12V -5V	35A-NOTE F 4A/7A pk 1.5A 1.5A	ADJ-NOTE A ±5%-NOTE C ±4%-NOTE B ±4%-NOTE B	±0.3% ±0.5% ±0.1% ±0.1%	±1% ±3% ±1% ±1%	N/A ±3% N/A N/A	13" x 5" x 2.45" U-CHANNEL CHASSIS

NOTES:

- A. Voltage level adjustable from 4.75V to OVP trip point.
Factory set to ±1% of nominal.
- B. Fully regulated output, voltage fixed (3 terminal regulator).
- C. Quasi-regulated output.
- D. Fully regulated output, voltage adjustable ±5% minimum.
Factory set to ±1% of nominal.

- E. The sum of the main +5V and AUX 1 load currents must not exceed 30A.
- F. The sum of the main +5V and AUX 1 load currents must not exceed the main +5V current rating.
- G. Maximum load is 10A or 120W.
- H. Voltage level adjustable from +5V to +24V. Factory set to +12V ±1%.
- J. Total output power must be limited to 450 watts, if the main +5V output current is greater than 50A.

SINGLE OUTPUT DC/DC POWER SUPPLIES

V out	1 out	V in Range	Model Number	Watts	Case Size-mm (W x L x H)	Features
5	1A	9.0 - 27.0	DFA6U12S5	5.0	1.08 X 2.12 X 0.48	A
5	1A	20.0 - 60.0	DFA6U48S5	5.0	1.08 X 2.12 X 0.48	A
5	1.2A	3.5 - 16.0	DFC6U5S5	6.0	1.00 X 2.00 X 0.45	A
5	2A	9.0 - 18.0	DFC10E12S5	10.0	1.02 X 2.02 X 0.41	A
5	2A	18.0 - 36.0	DFC10E24S5	10.0	1.02 X 2.02 X 0.41	B
5	2A	36.0 - 72.0	DFC10E48S5	10.0	1.02 X 2.02 X 0.41	B
5	5A	36.0 - 72.0	DGP30E48S5	25.0	1.62 X 2.02 X 0.55	B
5.2	1.2A	3.5 - 16.0	DFC6U5S5.2	6.2	1.00 X 2.00 X 0.45	B,C,D,E
12	0.5A	3.5 - 16.0	DFC6U5S12	6.0	1.00 X 2.00 X 0.45	A
12	0.5A	9.0 - 27.0	DFA6U12S12	6.0	1.08 X 2.12 X 0.48	A
12	0.5A	20.0 - 60.0	DFA6U48S12	6.0	1.08 X 2.12 X 0.48	A
12	2.5A	36.0 - 72.0	DGP30E48S12	30.0	1.62 X 2.02 X 0.55	B,C,D,E
15	0.4A	3.5 - 16.0	DFC6U5S15	6.0	1.00 X 2.00 X 0.45	A
15	0.4A	9.0 - 27.0	DFA6U12S15	6.0	1.08 X 2.12 X 0.48	B
15	0.4A	20.0 - 60.0	DFA6U48S15	6.0	1.08 X 2.12 X 0.48	B
15	0.7A	9.0 - 18.0	DFC10E12S15	10.5	1.02 X 2.02 X 0.41	B
15	2A	36.0 - 72.0	DGP30E48S15	30.0	1.62 X 2.02 X 0.55	B,C,D,E

DUAL OUTPUT

±5	±0.8A	18.0 - 72.0	DFC10U48D5	8.0	1.02 X 2.02 X 0.42	A
±5	±0.85A	9.0 - 36.0	DFC10U24D5	8.5	1.02 X 2.02 X 0.42	A
±12	±0.4A	9.0 - 36.0	DFC10U24D12	9.6	1.02 X 2.02 X 0.42	A
±12	±0.415A	18.0 - 72.0	DFC10U48D12	10.0	1.02 X 2.02 X 0.42	A
±12	±0.5A	3.5 - 16.0	DPG12U5D12	12.0	2.02 X 2.02 X 0.45	A,C,D
±15	±0.32A	9.0 - 36.0	DFC10U24D15	9.6	1.02 X 2.02 X 0.42	A
±15	±0.33A	18.0 - 72.0	DFC10U48D15	9.9	1.02 X 2.02 X 0.42	A

TRIPLE OUTPUT

5 ± 12	±0.8A	18.0 - 72.0	DFC10U48D5	8.0	1.02 X 2.02 X 0.42	A
5 ± 15	±0.85A	9.0 - 36.0	DFC10U24D5	8.5	1.02 X 2.02 X 0.42	A

NOTES:

- A. Short term current limit (<30seconds)
- B. Continuous current limit
- C. Remote ON/OFF
- D. Output trim function _

POWER SUPPLIES
INTERNATIONAL SERIES D.C. POWER SUPPLIES - MAP SERIES

AUTOMATIC SELECTING AC INPUT: 90°-132/175-264 VAC, 47-63 HZ
 UNIVERSAL TERMINAL BLOCK CONNECTORS
 ALL OUTPUTS FULLY REGULATED
 MOSFET SWITCHING TECHNOLOGY
 UNIVERSAL MOUNTING SYSTEM
 RUGGED WRAP-AROUND CHASSIS
 105°C RATED STORAGE CAPACITORS
 75% TYPICAL EFFICIENCY
 HIGH POWER DENSITY, UP TO 2.2 WATTS/CUBIC INCH
 PLATINUM BARRIER SCHOTTKY RECTIFIERS
 CONVECTION COOLED
 THERMAL SHUTDOWN WITH WARNING
 UL RECOGNIZED, CSA CERTIFIED

TUV CERTIFIED TO IEC380 VDE0805 EN60950
 IEC950 VDE0806
 MEETS DOMESTIC AND INTERNATIONAL SAFETY:
 3750 VAC ISOLATION
 VDE SAFETY SPACINGS
 MEETS DOMESTIC AND INTERNATIONAL EMI:
 FCC47CFR, PART 15, LEVEL B
 VDE0871, LEVEL B
 INTERNAL INPUT LINE FILTER
 POWER-FAIL WARNING SIGNAL
 FULL LOAD BURN-IN AND THERMAL CYCLING
 2 YEAR WARRANTY

MAP SERIES UNIVERSAL INPUT - SINGLE OUTPUT MODELS

MODEL	POWER/WATTS		VOLTAGE	CURRENT	INITIAL SETTING TOLERANCE	LINE REGULATION	LOAD REGULATION
	CONTINUOUS	PEAK					
MAP40-1005	40	55	5V	8A/11Apk	5.1V±2%	.2%	3%
MAP80-1005	80	100	5V	16A/20Apk	5.1V±2%	.2%	1%
MAP55-1012	60	70	12V-15V*	5A/5.8Apk 4A/4.7Apk	12.1V±.1V	.2%	2%
MAP80-1012	90	110	12V-15V*	7.5A/9.2Apk 6A/7.3APK	12.1V±.1V	.2%	1%
MAP130-1012	150	165	12V-15V*	12A/13.8Apk 10A/6.7Apk	12V±.2V	.2%	1%
MAP55-1024	60	70	24V-28V*	2.5A/3Apk 2.2A/2.5Apk	24V±.2V	.2%	.5%
MAP80-1024	90	110	24V-28V*	3.8A/4.6Apk 3.2A/3.9Apk	24V±.2V	.2%	.5%
MAP130-1024	150	165	24V-28V*	6.2A/6.8Apk 5.4A/5.9Apk	24V±.2V	.2%	1%

* Models with adjustable outputs have current ratings expressed as current at lowest nominal voltage followed by current at highest nominal voltage.

MULTIPLE OUTPUT MODELS
40WATTS CONTINUOUS, 55 WATTS PEAK POWER.

MODEL	VOLTAGE	CURRENT	INITIAL SETTING TOLERANCE	LINE REGULATION	LOAD REGULATION
MAP40-3000	+5V	3A	ADJ-NOTE A	0.2%	1%
	+12V	3.0A/4Apk	±3%-NOTE E	0.3%	7%
	-12V	0.5A	±4%-NOTE C	0.5%	2%

55 WATTS CONTINUOUS, 65 WATTS PEAK POWER.

MODEL	VOLTAGE	CURRENT	INITIAL SETTING TOLERANCE	LINE REGULATION	LOAD REGULATION
MAP55-4000	+5V	6A	ADJ-NOTE A	0.2%	2%
	+12V	3A/4Apk	±4%-NOTE C	0.2%	2%
	-5V	0.5A	±4%-NOTE C	0.5%	2%
	-12V	0.5A	±4%-NOTE C	0.5%	2%
MAP55-4001	+5V	6A	ADJ-NOTE A	0.2%	2%
	+24V	1.5A	±4%-NOTE C	0.2%	2%
	+12V	0.5A-Note F	±4%-NOTE C	0.5%	2%
	-12V	0.5A-Note F	±4%-NOTE C	0.5%	2%
MAP55-4002	+5V	6A	ADJ-NOTE A	0.2%	2%
	+12V	3A/4Apk	±4%-NOTE C	0.2%	2%
	+12V	0.5A-Note F	±4%-NOTE C	0.5%	2%
	-12V	0.5A-Note F	±4%-NOTE C	0.5%	2%
MAP55-4003	+5V	6A	ADJ-NOTE A	0.2%	2%
	+15V	2.5A/3.5Apk	±4%-NOTE C	0.2%	2%
	-5V	0.5A-Note F	±4%-NOTE C	0.5%	2%
	-15V	0.5A-Note F	±4%-NOTE C	0.5%	2%

80 WATTS CONTINUOUS, 90 WATTS PEAK POWER.

MODEL	VOLTAGE	CURRENT	INITIAL SETTING TOLERANCE	LINE REGULATION	LOAD REGULATION
MAP80-4000	+5V	14A	ADJ-NOTE A	0.2%	1%
	+12V	4A/7A pk	ADJ-NOTE B	0.2%	2%
	-12V	1A	±4%-NOTE C	0.5%	2%
	-5V	1A	±4%-NOTE C	0.5%	2%
MAP80-4001	+5V	14A	ADJ-NOTE A	0.2%	1%
	+24V	2A	ADJ-NOTE B	0.2%	1%
	+12V	1A	±4% NOTE C	0.5%	2%
	-12V	1A	±4% NOTE C	0.5%	2%
MAP80-4002	+5V	14A	ADJ-NOTE A	0.2%	1%
	+12V	4A/7A pk	ADJ-NOTE B	0.2%	1%
	+12V	1A	±4%-NOTE C	0.5%	2%
	-12V	1A	±4%-NOTE C	0.5%	2%
MAP80-4003	+5V	14A	ADJ-NOTE A	0.2%	1%
	+15V	3A/6A pk	ADJ-NOTE B	0.2%	1%
	-5V	1A	±4% NOTE C	0.5%	2%
	-15V	1A	±4% NOTE C	0.5%	2%

130 WATTS CONTINUOUS, 165 WATTS PEAK POWER.

MODEL	VOLTAGE	CURRENT	INITIAL SETTING TOLERANCE	LINE REGULATION	LOAD REGULATION
MAP130-4000	+5V	20A	ADJ-NOTE A	0.2%	1%
	+12V	5A/10A pk	ADJ-NOTE B	0.5%	2%
	-12V	1A	±4%-NOTE C	0.5%	2%
	-5V	1A	±4%-NOTE C	0.5%	2%
MAP130-4001	+5V	20A	ADJ-NOTE A	0.2%	1%
	+24V	3.5A/5A pk	ADJ-NOTE B	0.5%	2%
	+12V	1A	±4%-NOTE C	0.5%	2%
	-12V	1A	±4%-NOTE C	0.5%	2%
MAP130-4002	+5V	20A	ADJ-NOTE A	0.2%	1%
	+12V	5A/10A pk	ADJ-NOTE B	0.5%	2%
	+12V	1A	±4%-NOTE C	0.5%	2%
	-12V	1A	±4%-NOTE C	0.5%	2%
MAP130-4003	+5V	20A	ADJ-NOTE A	0.2%	1%
	+15V	4A/8A pk	ADJ-NOTE B	0.5%	2%
	+5V	1A	±4%-NOTE C	0.5%	2%
	-15V	1A	±4%-NOTE C	0.5%	2%
MAP130-4010	+5V	20A	ADJ-NOTE A	0.2%	1%
	+12V	5A/10A pk	ADJ-NOTE B	0.5%	2%
	-5V	1A	±4%-NOTE C	0.5%	2%
	-12V	3A	±4%-NOTE C	0.5%	2%

NOTES

- Voltage level adjustable from 4.75V to 5.50V. Factory set to ± 1 % of nominal.
- Fully regulated output, voltage adjustable ± 4% minimum.
Factory set to ±1% of nominal.
- Fully regulated output, voltage fixed.
- Voltage level adjustable from 10V to 16V. Factory set to 12V ±0.2V.
- Quasi regulated output.
- Max load on V3 or V4 can be 1 amp if either V3 or V4 is unloaded.

PRODUCT SELECTION GUIDE

Product Features

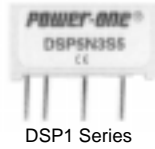
- SMD Construction
- Encapsulated Module
- CSA 22.2 #950
- 100% Burn-In
- ISO 9000
- UL1950
- TUV (to EN60950)
- Staked Pins
- CE Marked to LVD
- FR4 PCB
- Shielded Case

Features:

- A - Short term current limit (<30 seconds)
- B - Continuous current limit
- C - Remote ON/OFF
- D - Output trim function ± 10%
- E - Thermal shutdown

Single Output

V out	I out	V in Range	Model Number	Watts	Case Size - Inches W x L x H	Features
3.3	2 A	36.0 - 72.0	DFC10E48S3.3	6.6	10.2 x 2.02 x 0.41	B
3.3	3.5 A	4.5 - 6.0	DSN17N5S3.3	11.5	2.00 x 0.75 x 0.50	B, C
3.3	4 A	36.0 - 72.0	DFA20E48S3.3	13.2	2.02 x 2.02 x 0.45	B, C, D
5	0.15 A	4.5 - 5.5	DSP1N5S5	0.75	0.77 x 0.40 x 0.27	A
5	1 A	9.0 - 27.0	DFA6U12S5	5.0	1.08 x 2.12 x 0.48	A
5	1 A	20.0 - 60.0	DFA6U48S5	5.0	1.08 x 2.12 x 0.48	A
5	1.2 A	3.5 - 16.0	DFC6U5S5	6.0	1.00 x 2.00 x 0.45	A
5	2 A	3.5 - 16.0	DGP12U5S5	10.0	2.02 x 2.02 x 0.45	A, C, D
5	2 A	9.0 - 18.0	DFC10E12S5	10.0	1.02 x 2.02 x 0.41	B
5	2 A	18.0 - 36.0	DFC10E24S5	10.0	1.02 x 2.02 x 0.41	B
5	2 A	36.0 - 72.0	DFC10E48S5	10.0	1.02 x 2.02 x 0.41	B
5	3 A	20.0 - 60.0	DFC15U48S5	15.0	1.62 x 2.02 x 0.55	B, C, D
5	3.5 A	6.5 - 15.5	DSN17N12S5	17.5	2.00 x 0.75 x 0.50	B, C
5	4 A	9.0 - 18.0	DFA20E12S5	20.0	2.02 x 2.02 x 0.45	B, C, D, E
5	4 A	18.0 - 36.0	DFA20E24S5	20.0	2.02 x 2.02 x 0.45	B, C, D, E
5	4 A	36.0 - 72.0	DFA20E48S5	20.0	2.02 x 2.02 x 0.45	B, C, D, E
5	5 A	36.0 - 72.0	DGP30E48S5	25.0	1.62 x 2.02 x 0.55	B, C, D, E
5.2	1.2 A	3.5 - 16.0	DFC6U5S5.2	6.2	1.00 x 2.00 x 0.45	A
7	0.14 A	4.5 - 5.5	DSP1N5S7	1.0	0.77 x 0.40 x 0.27	A
12	0.08 A	4.5 - 5.5	DSP1N5S12	1.0	0.77 x 0.40 x 0.27	A
12	0.5 A	3.5 - 16.0	DFC6U5S12	6.0	1.00 x 2.00 x 0.45	A
12	0.5 A	9.0 - 27.0	DFA6U12S12	6.0	1.08 x 2.12 x 0.48	A
12	0.5 A	20.0 - 60.0	DFA6U48S12	6.0	1.08 x 2.12 x 0.48	A
12	0.9 A	9.0 - 18.0	DFC10E12S12	10.8	1.02 x 2.02 x 0.41	B
12	0.9 A	18.0 - 36.0	DFC10E24S12	10.8	1.02 x 2.02 x 0.41	B
12	0.9 A	36.0 - 72.0	DFC10E48S12	10.8	1.02 x 2.02 x 0.41	B
12	1 A	3.5 - 16.0	DGP12U5S12	12.0	2.02 x 2.02 x 0.45	A, C, D
12	1.25 A	20.0 - 60.0	DFC15U48S12	15.0	1.62 x 2.02 x 0.55	B, C, D
12	1.7 A	9.0 - 18.0	DFA20E12S12	20.4	2.02 x 2.02 x 0.45	B, C, D, E
12	1.7 A	18.0 - 36.0	DFA20E24S12	20.4	2.02 x 2.02 x 0.45	B, C, D, E
12	1.7 A	36.0 - 72.0	DFA20E48S12	20.4	2.02 x 2.02 x 0.45	B, C, D, E
12	2.5 A	36.0 - 72.0	DGP30E48S12	30.0	1.62 x 2.02 x 0.55	B, C, D, E
14	0.07 A	4.5 - 5.5	DSP1N5S14	1.0	0.77 x 0.40 x 0.27	A
15	0.065 A	4.5 - 5.5	DSP1N5S15	1.0	0.77 x 0.40 x 0.27	A
15	0.4 A	3.5 - 16.0	DFC6U5S15	6.0	1.00 x 2.00 x 0.45	A
15	0.4 A	9.0 - 27.0	DFA6U12S15	6.0	1.08 x 2.12 x 0.48	B
15	0.4 A	20.0 - 60.0	DFA6U48S15	6.0	1.08 x 2.12 x 0.48	B
15	0.7 A	9.0 - 18.0	DFC10E12S15	10.5	1.02 x 2.02 x 0.41	B
15	0.7 A	18.0 - 36.0	DFC10E24S15	10.5	1.02 x 2.02 x 0.41	B
15	0.7 A	36.0 - 72.0	DFC10E48S15	10.5	1.02 x 2.02 x 0.41	B
15	0.8 A	3.5 - 16.0	DGP12U5S15	12.0	2.02 x 2.02 x 0.45	A, C, D
15	1 A	20.0 - 60.0	DFC15U48S15	15.0	1.62 x 2.02 x 0.55	B, C, D
15	1.4 A	9.0 - 18.0	DFA20E12S15	21.0	2.02 x 2.02 x 0.45	B, C, D, E
15	1.4 A	18.0 - 36.0	DFA20E24S15	21.0	2.02 x 2.02 x 0.45	B, C, D, E
15	1.4 A	36.0 - 72.0	DFA20E48S15	21.0	2.02 x 2.02 x 0.45	B, C, D, E
15	2 A	36.0 - 72.0	DGP30E48S15	30.0	1.62 x 2.02 x 0.55	B, C, D, E
17	0.06 A	4.5 - 5.5	DSP1N5S17	1.0	0.77 x 0.40 x 0.27	A



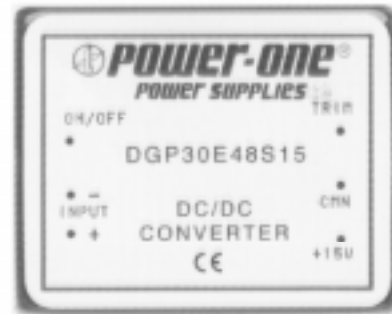
DSP1 Series



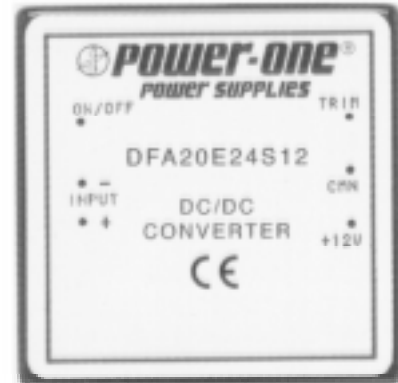
DFC6 Series
DFA6 Series
DFC10 Series



DSN17 Series



DFC15 Series
DGP30 Series



DGP12 Series
DFA20 Series
DGP20 Series

See next page for Dual and Triple Outputs

