

**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	PRICE
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"	36.35
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"	52.20
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"	73.10
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"	83.55
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"	114.90
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"	184.51
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"	34.66
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"	36.35
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"	52.20
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"	73.10
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"	83.55
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"	114.90
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"	184.51
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"	41.83
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"	57.42
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"	88.77
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"	125.35
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	PRICE
HAA5-1.5/OVP-A	+5V @ 1.5A*	-5V @ 1.5A*	6.5" X 4" X 2.10"	\$52.20
HBB5-3/OVP-A	+5V @ 3A*	-5V @ 3A*	7" X 4.88" X 2.95"	76.23
HCC5-6/OVP-A	+5V @ 6A*#	-5V @ 6A*#	9.38" X 4.87" X 3.28"	101.31
HAD12-0.4-A	+12V @ 0.4A&	-12V @ 0.4A&	4.87" X 4" X 2.10"	38.61
HAD15-0.4-A	+15V @ 0.4A&	-15V @ 0.4A&	4.87" X 4" X 2.10"	38.61
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"	44.88
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"	57.42
HCC15-3-A	+12V @ 3.4A OR +15V @ 3A#	-12V @ 3.4A OR -15V @ 3A#	9.38" X 4.87" X 2.95"	91.91
HDD15-5-A	+12V OR +15V @ 5A#	(-)12V OR 15V @ 5A#	14" X 4.87" X 3.53"	135.80
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"	48.46
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"	57.42
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"	91.91
HAA512-A	5V @ 2A*\$	12-15V @ 0.5A	6.5" X 4" X 2.10"	52.20
HBB512-A	5V @ 3A*#\$	12-15V @ 1.25A#	7" X 4.88" X 2.95"	62.65
HCC512-A	5V @ 6A*#\$	12-15V @ 2.5A#	9.38" X 4.87" X 3.28"	99.22

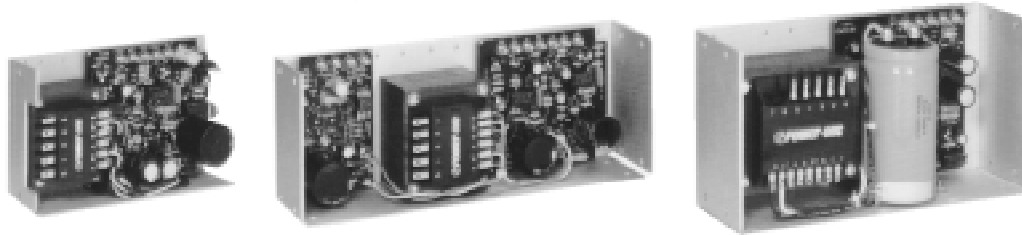
* Overvoltage protection provided. Set at 6.2V ± 0.4V.

Remote sense provided.

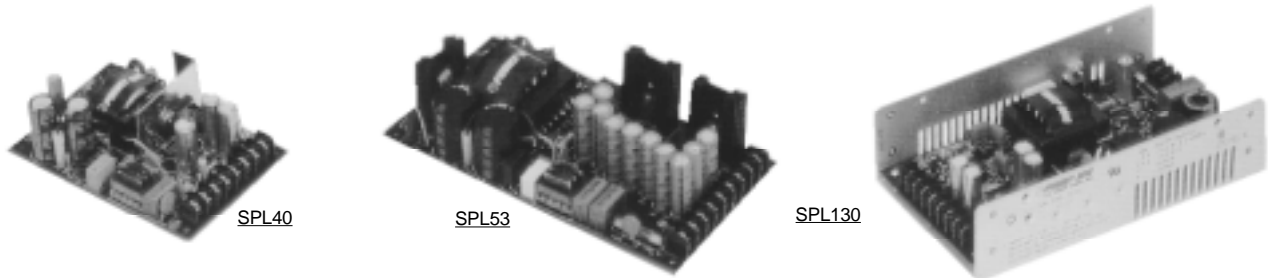
** Adjustable outputs: F15-15A - 12-15V F24-12a - 24-28V.

& 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	PRICE
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"	\$57.42
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"	79.37
HCAA-60W-A	+5V @ 6A*#	+12 TO 15V @ 1A	(-)12 TO 15V @ 1A OR -5V @ 0.4A	9" x 4.87" x 3.28"	94.00
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"	109.67
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"	125.35
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"	141.02
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"	161.92

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	PRICE
SPL53-1005	80	5V	16A	±0.3%	±1%	8.25" x 4.25" x 2.10"***	\$149.92
SPL130-1005	140	5V	26A	±0.3%	±1%	8.90" x 5" x 2.45"****	286.24
SPL250-1005	250	5V	50A	±0.3%	±1%	12" x 4.94" x 2.45"****	380.55
SPL53-1012	80	12V-15V*	6.7A/5.3A	±0.3%	±1%	8.25" x 4.25" x 2.10"***	149.92
SPL130-1012	130	12V-15V*	11A/9A	±0.3%	±1%	8.90" x 5" x 2.45"****	286.24
SPL250-1012	250	12V-15V*	21A/17A	±0.3%	±1%	12" x 4.94" x 2.45"****	380.55
SPL53-1024	80	24V-28V*	3.3A/2.8A	±0.3%	±1%	8.25" x 4.25" x 2.10"***	149.92
SPL130-1024	140	24V-28V*	5.5A/4.5A	±0.3%	±1%	8.90" x 5" x 2.45"****	286.24
SPL250-1024	250	24V-28V*	10A/7A	±0.3%	±1%	12" x 4.94" x 2.45"****	380.55

*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	PRICE
	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	\$147.02
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	98.76
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	158.73
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	158.73
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	176.96
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	337.04
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	337.04
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	337.04
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	400.84

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	Price
5	1A	9.0 - 27.0	DFA6U12S5	5.0	1.08 X 2.12 X 0.48	A	\$61.00
5	1A	20.0 - 60.0	DFA6U48S5	5.0	1.08 X 2.12 X 0.48	A	61.00
5	1.2A	3.5 - 16.0	DFC6U5S5	6.0	1.00 X 2.00 X 0.45	A	61.00
5	2A	9.0 - 18.0	DFC10E12S5	10.0	1.02 X 2.02 X 0.41	A	38.00
5	2A	18.0 - 36.0	DFC10E24S5	10.0	1.02 X 2.02 X 0.41	B	38.00
5	2A	36.0 - 72.0	DFC10E48S5	10.0	1.02 X 2.02 X 0.41	B	68.00
5	5A	36.0 - 72.0	DGP30E48S5	25.0	1.62 X 2.02 X 0.55	B	110.00
5.2	1.2A	3.5 - 16.0	DFC6U5S5.2	6.2	1.00 X 2.00 X 0.45	B,C,D,E	61.00
12	0.5A	3.5 - 16.0	DFC6U5S12	6.0	1.00 X 2.00 X 0.45	A	61.00
12	0.5A	9.0 - 27.0	DFA6U12S12	6.0	1.08 X 2.12 X 0.48	A	61.00
12	0.5A	20.0 - 60.0	DFA6U48S12	6.0	1.08 X 2.12 X 0.48	A	61.00
12	2.5A	36.0 - 72.0	DGP30E48S12	30.0	1.62 X 2.02 X 0.55	B,C,D,E	110.00
15	0.4A	3.5 - 16.0	DFC6U5S15	6.0	1.00 X 2.00 X 0.45	A	61.00
15	0.4A	9.0 - 27.0	DFA6U12S15	6.0	1.08 X 2.12 X 0.48	B	61.00
15	0.4A	20.0 - 60.0	DFA6U48S15	6.0	1.08 X 2.12 X 0.48	B	61.00
15	0.7A	9.0 - 18.0	DFC10E12S15	10.5	1.02 X 2.02 X 0.41	B	68.00
15	2A	36.0 - 72.0	DGP30E48S15	30.0	1.62 X 2.02 X 0.55	B,C,D,E	110.00

DUAL OUTPUT

±5	±0.8A	18.0 - 72.0	DFC10U48D5	8.0	1.02 X 2.02 X 0.42	A	68.00
±5	±0.85A	9.0 - 36.0	DFC10U24D5	8.5	1.02 X 2.02 X 0.42	A	68.00
±12	±0.4A	9.0 - 36.0	DFC10U24D12	9.6	1.02 X 2.02 X 0.42	A	68.00
±12	±0.415A	18.0 - 72.0	DFC10U48D12	10.0	1.02 X 2.02 X 0.42	A	68.00
±12	±0.5A	3.5 - 16.0	DPG12U5D12	12.0	2.02 X 2.02 X 0.45	A,C,D	81.50
±15	±0.32A	9.0 - 36.0	DFC10U24D15	9.6	1.02 X 2.02 X 0.42	A	68.00
±15	±0.33A	18.0 - 72.0	DFC10U48D15	9.9	1.02 X 2.02 X 0.42	A	68.00

TRIPLE OUTPUT

5 ± 12	±0.8A	18.0 - 72.0	DFC10U48D5	8.0	1.02 X 2.02 X 0.42	A	68.00
5 ± 15	±0.85A	9.0 - 36.0	DFC10U24D5	8.5	1.02 X 2.02 X 0.42	A	68.00

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	PRICE
	CONTINUOUS	PEAK						
MAP40-1005	40	55	5V	8A/11Apk	5.1V±2%	.2%	3%	\$99.28
MAP80-1005	80	100	5V	16A/20Apk	5.1V±2%	.2%	1%	129.16
MAP55-1012	60	70	12V-15V*	5A/5.8Apk 4A/4.7Apk	12.1V±.1V	.2%	2%	99.28
MAP80-1012	90	110	12V-15V*	7.5A/9.2Apk 6A/7.3APK	12.1V±.1V	.2%	1%	129.16
MAP130-1012	150	165	12V-15V*	12A/13.8Apk 10A/6.7Apk	12V±.2V	.2%	1%	204.75
MAP55-1024	60	70	24V-28V*	2.5A/3Apk 2.2A/2.5Apk	24V±.2V	.2%	.5%	204.75
MAP80-1024	90	110	24V-28V*	3.8A/4.6Apk 3.2A/3.9Apk	24V±.2V	.2%	.5%	129.16
MAP130-1024	150	165	24V-28V*	6.2A/6.8Apk 5.4A/5.9Apk	24V±.2V	.2%	1%	204.75

* 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	Price
MAP40-3000	+5V	3A	ADJ-NOTE A	0.2%	1%	\$59.95
	+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	Price
MAP55-4000	+5V	6A	ADJ-NOTE A	0.2%	2%	\$109.72
	+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%	109.72
	+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%	109.72
	+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%	114.17
	+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	Price
MAP80-4000	+5V	14A	ADJ-NOTE A	0.2%	1%	\$134.54
	+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%	134.54
	+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%	134.54
	+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%	138.74
	+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	Price
MAP130-4000	+5V	20A	ADJ-NOTE A	0.2%	1%	212.59
	+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%	212.59
	+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%	212.59
	+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%	216.33
	+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%	218.03
	+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

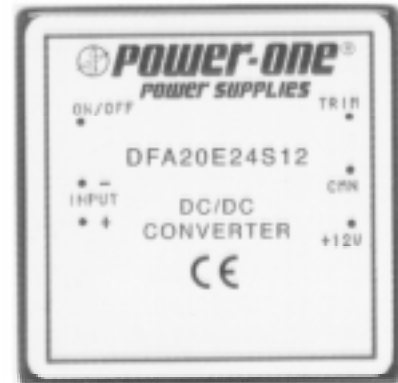
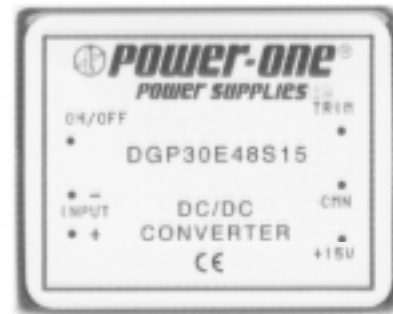
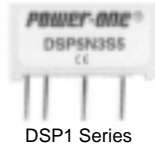
- SMD Construction
- Encapsulated Module
- CSA 22.2 #950
- 100% Burn-In
- ISO 9000
- UL1950
- TUV (to EN60950)
- Staked Pins
- CE Marked to LVD
- FR4 PCB
- Shielded Case

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	Price	Watts	Case Size - Inches W x L x H	Features
3.3	2 A	36.0 - 72.0	DFC10E48S3.3	\$ 68.00	6.6	10.2 x 2.02 x 0.41	B
3.3	3.5 A	4.5 - 6.0	DSN17N5S3.3	74.00	11.5	2.00 x 0.75 x 0.50	B, C
3.3	4 A	36.0 - 72.0	DFA20E48S3.3	100.50	13.2	2.02 x 2.02 x 0.45	B, C, D
5	0.15 A	4.5 - 5.5	DSP1N5S5	9.00	0.75	0.77 x 0.40 x 0.27	A
5	1 A	9.0 - 27.0	DFA6U12S5	61.00	5.0	1.08 x 2.12 x 0.48	A
5	1 A	20.0 - 60.0	DFA6U48S5	61.00	5.0	1.08 x 2.12 x 0.48	A
5	1.2 A	3.5 - 16.0	DFC6U5S5	61.00	6.0	1.00 x 2.00 x 0.45	A
5	2 A	3.5 - 16.0	DGP12U5S5	81.50	10.0	2.02 x 2.02 x 0.45	A, C, D
5	2 A	9.0 - 18.0	DFC10E12S5	68.00	10.0	1.02 x 2.02 x 0.41	B
5	2 A	18.0 - 36.0	DFC10E24S5	68.00	10.0	1.02 x 2.02 x 0.41	B
5	2 A	36.0 - 72.0	DFC10E48S5	68.00	10.0	1.02 x 2.02 x 0.41	B
5	3 A	20.0 - 60.0	DFC15U48S5	93.00	15.0	1.62 x 2.02 x 0.55	B, C, D
5	3.5 A	6.5 - 15.5	DSN17N12S5	74.00	17.5	2.00 x 0.75 x 0.50	B, C
5	4 A	9.0 - 18.0	DFA20E12S5	100.50	20.0	2.02 x 2.02 x 0.45	B, C, D, E
5	4 A	18.0 - 36.0	DFA20E24S5	100.50	20.0	2.02 x 2.02 x 0.45	B, C, D, E
5	4 A	36.0 - 72.0	DFA20E48S5	100.50	20.0	2.02 x 2.02 x 0.45	B, C, D, E
5	5 A	36.0 - 72.0	DGP30E48S5	110.00	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	61.00	6.2	1.00 x 2.00 x 0.45	A
7	0.14 A	4.5 - 5.5	DSP1N5S7	9.00	1.0	0.77 x 0.40 x 0.27	A
12	0.08 A	4.5 - 5.5	DSP1N5S12	9.00	1.0	0.77 x 0.40 x 0.27	A
12	0.5 A	3.5 - 16.0	DFC6U5S12	61.00	6.0	1.00 x 2.00 x 0.45	A
12	0.5 A	9.0 - 27.0	DFA6U12S12	61.00	6.0	1.08 x 2.12 x 0.48	A
12	0.5 A	20.0 - 60.0	DFA6U48S12	61.00	6.0	1.08 x 2.12 x 0.48	A
12	0.9 A	9.0 - 18.0	DFC10E12S12	68.00	10.8	1.02 x 2.02 x 0.41	B
12	0.9 A	18.0 - 36.0	DFC10E24S12	68.00	10.8	1.02 x 2.02 x 0.41	B
12	0.9 A	36.0 - 72.0	DFC10E48S12	68.00	10.8	1.02 x 2.02 x 0.41	B
12	1 A	3.5 - 16.0	DGP12U5S12	81.50	12.0	2.02 x 2.02 x 0.45	A, C, D
12	1.25 A	20.0 - 60.0	DFC15U48S12	93.00	15.0	1.62 x 2.02 x 0.55	B, C, D
12	1.7 A	9.0 - 18.0	DFA20E12S12	100.50	20.4	2.02 x 2.02 x 0.45	B, C, D, E
12	1.7 A	18.0 - 36.0	DFA20E24S12	100.50	20.4	2.02 x 2.02 x 0.45	B, C, D, E
12	1.7 A	36.0 - 72.0	DFA20E48S12	100.50	20.4	2.02 x 2.02 x 0.45	B, C, D, E
12	2.5 A	36.0 - 72.0	DGP30E48S12	110.00	30.0	1.62 x 2.02 x 0.55	B, C, D, E
14	0.07 A	4.5 - 5.5	DSP1N5S14	9.00	1.0	0.77 x 0.40 x 0.27	A
15	0.065 A	4.5 - 5.5	DSP1N5S15	9.00	1.0	0.77 x 0.40 x 0.27	A
15	0.4 A	3.5 - 16.0	DFC6U5S15	61.00	6.0	1.00 x 2.00 x 0.45	A
15	0.4 A	9.0 - 27.0	DFA6U12S15	61.00	6.0	1.08 x 2.12 x 0.48	B
15	0.4 A	20.0 - 60.0	DFA6U48S15	61.00	6.0	1.08 x 2.12 x 0.48	B
15	0.7 A	9.0 - 18.0	DFC10E12S15	68.00	10.5	1.02 x 2.02 x 0.41	B
15	0.7 A	18.0 - 36.0	DFC10E24S15	68.00	10.5	1.02 x 2.02 x 0.41	B
15	0.7 A	36.0 - 72.0	DFC10E48S15	68.00	10.5	1.02 x 2.02 x 0.41	B
15	0.8 A	3.5 - 16.0	DGP12U5S15	81.50	12.0	2.02 x 2.02 x 0.45	A, C, D
15	1 A	20.0 - 60.0	DFC15U48S15	93.00	15.0	1.62 x 2.02 x 0.55	B, C, D
15	1.4 A	9.0 - 18.0	DFA20E12S15	100.50	21.0	2.02 x 2.02 x 0.45	B, C, D, E
15	1.4 A	18.0 - 36.0	DFA20E24S15	100.50	21.0	2.02 x 2.02 x 0.45	B, C, D, E
15	1.4 A	36.0 - 72.0	DFA20E48S15	100.50	21.0	2.02 x 2.02 x 0.45	B, C, D, E
15	2 A	36.0 - 72.0	DGP30E48S15	110.00	30.0	1.62 x 2.02 x 0.55	B, C, D, E
17	0.06 A	4.5 - 5.5	DSP1N5S17	9.00	1.0	0.77 x 0.40 x 0.27	A



See next page for Dual and Triple Outputs

PRODUCT SELECTION GUIDE

Product Features

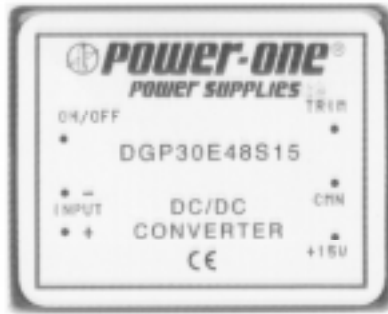
- SMD Construction
- Encapsulated Module
- CSA 22.2 #950
- 100% Burn-In
- ISO 9000
- UL1950
- TUV (to EN60950)
- Staked Pins
- CE Marked to LVD
- FR4 PCB
- Shielded Case



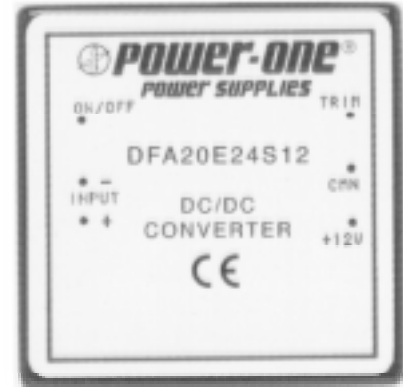
DSP 1 Series



DFC 6 Series
DFA 6 Series
DFC 10 Series



DFC 15 Series
DGP 30 Series



DGP 12 Series
DFA 20 Series
DGP 20 Series

Dual Output

V out	I out	V in Range	Model Number	Price	Watts	Case Size - Inches W x L x H	Features
± 5	± 0.075 A	4.5 - 5.5	DSP1N5D5	\$ 15.00	0.75	0.77 X 0.40 X 0.27	A
± 5	± 0.8 A	18.0 - 72.0	DFC10U48D5	68.00	8.0	1.02 X 2.02 X 0.42	A
± 5	± 0.85 A	9.0 - 36.0	DFC10U24D5	68.00	8.5	1.02 X 2.02 X 0.42	A
± 5	± 1.0 A	3.5 - 16.0	DGP12U5D5	81.50	10.0	2.02 X 2.02 X 0.45	A, C, D
± 5	± 1.7 A	9.0 - 18.0	DFA20E12D5	100.50	17.0	2.02 X 2.02 X 0.45	B, C, D, E
± 5	± 1.7 A	18.0 - 36.0	DFA20E24D5	100.50	17.0	2.02 X 2.02 X 0.45	B, C, D, E
± 5	± 1.7 A	36.0 - 72.0	DFA20E48D5	100.50	17.0	2.02 X 2.02 X 0.45	B, C, D, E
± 7	± 0.07 A	4.5 - 5.5	DSP1N5D7	15.00	1.0	0.77 X 0.40 X 0.27	A
± 12	± 0.04 A	4.5 - 5.5	DSP1N5D12	15.00	1.0	0.77 X 0.40 X 0.27	A
± 12	± 0.4 A	9.0 - 36.0	DFC10U24D12	68.00	9.6	1.02 X 2.02 X 0.42	A
± 12	± 0.415 A	18.0 - 72.0	DFC10U48D12	68.00	10.0	1.02 X 2.02 X 0.42	A
± 12	± 0.5 A	3.5 - 16.0	DGP12U5D12	81.50	12.0	2.02 X 2.02 X 0.45	A, C, D
± 12	± 0.625 A	20.0 - 72.0	DFC15U48D12	93.00	15.0	1.62 X 2.02 X 0.55	B, C, D, E
± 12	± 0.85 A	9.0 - 18.0	DFA20E12D12	100.50	20.4	2.02 X 2.02 X 0.45	B, C, D, E
± 12	± 0.85 A	18.0 - 36.0	DFA20E24D12	100.50	20.4	2.02 X 2.02 X 0.45	B, C, D, E
± 12	± 0.85 A	36.0 - 72.0	DFA20E48D12	100.50	20.4	2.02 X 2.02 X 0.45	B, C, D, E
± 14	± 0.035 A	4.5 - 5.5	DSP1N5D14	15.00	1.0	0.77 X 0.40 X 0.27	A
± 15	± 0.033 A	4.5 - 5.5	DSP1N5D15	15.00	1.0	0.77 X 0.40 X 0.27	A
± 15	± 0.32 A	9.0 - 36.0	DFC10U24D15	68.00	9.6	1.02 X 2.02 X 0.42	A
± 15	± 0.33 A	18.0 - 72.0	DFC10U48D15	68.00	9.9	1.02 X 2.02 X 0.42	A
± 15	± 0.4 A	3.5 - 16.0	DGP12U5D15	81.50	12.0	2.02 X 2.02 X 0.45	A, C, D
± 15	± 0.5 A	20.0 - 72.0	DFC15U48D15	93.00	15.0	1.62 X 2.02 X 0.55	B, C, D, E
± 15	± 0.7 A	9.0 - 18.0	DFA20E12D15	100.50	21.0	2.02 X 2.02 X 0.45	B, C, D, E
± 15	± 0.7 A	18.0 - 36.0	DFA20E24D15	100.50	21.0	2.02 X 2.02 X 0.45	B, D, D, E
± 15	± 0.7 A	36.0 - 72.0	DFA20E48D15	100.50	21.0	2.02 X 2.02 X 0.45	B, C, D, E
± 17	± 0.030 A	4.5 - 5.5	DSP1N5D17	15.00	1.0	0.77 X 0.40 X 0.27	A

Features:

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

Triple Output

V out	I out	V in Range	Model Number	Price	Watts	Case Size - Inches W x L x H	Features
5 ± 12	2.5 A, ± 0.310 A	9.0 - 18.0	DGP20E12T5/12	\$ 102.00	20.0	2.02 X 2.02 X 0.45	B, C
5 ± 12	2.5 A, ± 0.310 A	18.0 - 36.0	DGP20E24T5/12	102.00	20.0	2.02 X 2.02 X 0.45	B, C
5 ± 12	2.5 A, ± 0.310 A	36.0 - 72.0	DGP20E48T5/12	102.00	20.0	2.02 X 2.02 X 0.45	B, C
5 ± 15	2.5 A, ± 0.250 A	9.0 - 18.0	DGP20E12T5/15	102.00	20.0	2.02 X 2.02 X 0.45	B, C
5 ± 15	2.5 A, ± 0.250 A	18.0 - 36.0	DGP20E24T5/15	102.00	20.0	2.02 X 2.02 X 0.45	B, C
5 ± 15	2.5 A, ± 0.250 A	36.0 - 72.0	DGP20E48T5/15	102.00	20.0	2.02 X 2.02 X 0.45	B, C