ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Acopian 28E15E100* at our website: *Click HERE*

3-Day_Bro_Print.qxd 5/21/07 8:04 AM Page 26

DC-DC Converters

Mini Encapsulated - **PC Board mounting**
REGULATED
single & dual tracking outputs

- Shipped Within 3 Days
- One Year Warranty



These versatile DC-DC Converters are ideally suited for powering a wide variety of analog and digital circuitry, such as op amps, logic and microprocessors. They may be mounted directly on a printed circuit board for OEM applications, or installed in a socket for developmental and small quantity requirements. For DC-DC Converters with screw terminals, see pages 28 and 29.

Efficiency is in the order of 65%, and is maintained down to low levels of output current. Input reflected ripple is reduced to less than 1% by means of a standard built-in pi filter, and electrostatic shielding on all six sides minimizes radiated energy. High input/output isolation permits separation of the output from the dc input bus to minimize circuit interaction due to ground loops, and the use of inputs in either polarity.

SPECIFICATIONS

Input Voltage: Nominal voltage ±10%.

Input Reflected Ripple: 1% E_{in} (max.)

Output Regulation:
Line: ±0.02%
Load: ±0.05%

Output Ripple (@ 25 MHz bandwidth)**:**
1 mV rms, 50 mV p-p (5-15V outputs).
1.5 mV rms, 75 mV p-p (18-28V outputs).

Output Voltage Setting: Outputs are factory preset to within ±1% of the nominal output voltage.

T/C terminal: For single output models, the T/C terminal can be used to trim the output more precisely to the nominal voltage rating by connecting an external resistor from the T/C terminal to either the + or – terminal. For dual output models, the T/C terminal is the output common.

Polarity: The output of single output models may be connected in either polarity. Dual output models have a positive/common/negative output terminal configuration.

Transient Response (NL-FL): 50 microseconds.

Overload/Short Circuit Protection: Electronic current limiting with automatic recovery. Models in case size ELC-10 also have thermal protection with automatic reset.

Input/Output Isolation:
Voltage: 500 Vdc
Resistance: 100 megohms
Capacitance: 100 pF

Switching Frequency: 20 kHz minimum.

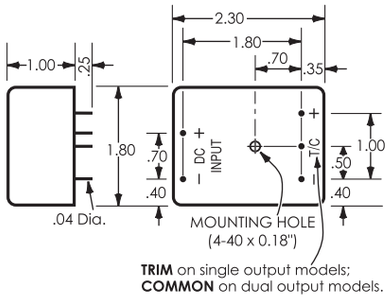
Temperature Coefficient: 0.02%/°C (Typical).

Ambient Operating Temperature: –20 to +71°C.

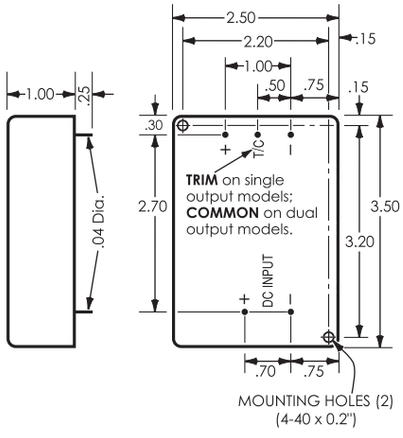
Storage Temperature: –40 to +85°C.

Humidity: 20% to 80% R.H. (non-condensing).

Mounting: May be mounted on printed circuit board or in socket (see page 6).



Case Size ESC-10
Approx. Weight: 5 oz.



Case Size ELC-10
Approx. Weight: 12 oz.

The complete Acopian catalog is available on the Internet at ***www.acopian.com***
P.O. Box 638, Easton, PA 18044 • Phone: (610) 258-5441 • FAX: (610) 258-2842

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

3-Day_Bro_Print.qxd 5/21/07 8:04 AM Page 27

SINGLE OUTPUT, FOR PC BOARD MOUNTING

Nominal Input Voltage	Nominal Output Voltage	Output Current Amps. at 40°C	55°C	71°C	($) Price	Model	Case Size
5	5	1.25	1.25	1.00	98	5E5E125	ESC-10
5	5	2.50	2.25	2.00	119	5E5E250	ELC-10
5	6	1.00	1.00	.80	98	5E6E100	ESC-10
5	6	2.00	1.80	1.60	119	5E6E200	ELC-10
5	8	.75	.75	.60	98	5E8E75	ESC-10
5	8	1.50	1.35	1.20	119	5E8E150	ELC-10
5	9	.70	.70	.55	98	5E9E70	ESC-10
5	9	1.40	1.25	1.10	119	5E9E140	ELC-10
5	10	.65	.65	.50	98	5E10E65	ESC-10
5	10	1.30	1.15	1.00	119	5E10E130	ELC-10
5	12	.60	.60	.50	98	5E12E60	ESC-10
5	12	1.20	1.10	1.00	119	5E12E120	ELC-10
5	13	.55	.55	.45	98	5E13E55	ESC-10
5	13	1.10	1.00	.90	119	5E13E110	ELC-10
5	15	.50	.50	.40	98	5E15E50	ESC-10
5	15	1.00	.90	.80	119	5E15E100	ELC-10
5	18	.40	.40	.30	98	5E18E40	ESC-10
5	18	.80	.70	.60	119	5E18E80	ELC-10
5	20	.35	.35	.28	98	5E20E35	ESC-10
5	20	.70	.60	.50	119	5E20E70	ELC-10
5	24	.25	.25	.20	98	5E24E25	ESC-10
5	24	.60	.55	.50	119	5E24E60	ELC-10
5	28	.25	.25	.20	98	5E28E25	ESC-10
5	28	.50	.45	.40	119	5E28E50	ELC-10
12	5	1.25	1.25	1.00	98	12E5E125	ESC-10
12	5	2.50	2.25	2.00	119	12E5E250	ELC-10
12	6	1.00	1.00	.80	98	12E6E100	ESC-10
12	6	2.00	1.80	1.60	119	12E6E200	ELC-10
12	8	.75	.75	.60	98	12E8E75	ESC-10
12	8	1.50	1.35	1.20	119	12E8E150	ELC-10
12	9	.70	.70	.55	98	12E9E70	ESC-10
12	9	1.40	1.25	1.10	119	12E9E140	ELC-10
12	10	.65	.65	.50	98	12E10E65	ESC-10
12	10	1.30	1.15	1.00	119	12E10E130	ELC-10
12	12	.60	.60	.50	98	12E12E60	ESC-10
12	12	1.20	1.10	1.00	119	12E12E120	ELC-10
12	13	.55	.55	.45	98	12E13E55	ESC-10
12	13	1.10	1.00	.90	119	12E13E110	ELC-10
12	15	.50	.50	.40	98	12E15E50	ESC-10
12	15	1.00	.90	.80	119	12E15E100	ELC-10
12	18	.40	.40	.30	98	12E18E40	ESC-10
12	18	.80	.70	.60	119	12E18E80	ELC-10
12	20	.35	.35	.28	98	12E20E35	ESC-10
12	20	.70	.60	.50	119	12E20E70	ELC-10
12	24	.25	.25	.20	98	12E24E25	ESC-10
12	24	.60	.55	.50	119	12E24E60	ELC-10
12	28	.25	.25	.20	98	12E28E25	ESC-10
12	28	.50	.45	.40	119	12E28E50	ELC-10
15	5	1.25	1.25	1.00	98	15E5E125	ESC-10
15	5	2.50	2.25	2.00	119	15E5E250	ELC-10
15	6	1.00	1.00	.80	98	15E6E100	ESC-10
15	6	2.00	1.80	1.60	119	15E6E200	ELC-10
15	8	.75	.75	.60	98	15E8E75	ESC-10
15	8	1.50	1.35	1.20	119	15E8E150	ELC-10
15	9	.70	.70	.55	98	15E9E70	ESC-10
15	9	1.40	1.25	1.10	119	15E9E140	ELC-10
15	10	.65	.65	.50	98	15E10E65	ESC-10
15	10	1.30	1.15	1.00	119	15E10E130	ELC-10
15	12	.60	.60	.50	98	15E12E60	ESC-10
15	12	1.20	1.10	1.00	119	15E12E120	ELC-10
15	13	.55	.55	.45	98	15E13E55	ESC-10
15	13	1.10	1.00	.90	119	15E13E110	ELC-10
15	15	.50	.50	.40	98	15E15E50	ESC-10
15	15	1.00	.90	.80	119	15E15E100	ELC-10
15	18	.40	.40	.30	98	15E18E40	ESC-10
15	18	.80	.70	.60	119	15E18E80	ELC-10

Nominal Input Voltage	Nominal Output Voltage	Output Current Amps. at 40°C	55°C	71°C	($) Price	Model	Case Size
15	20	.35	.35	.28	98	15E20E35	ESC-10
15	20	.70	.60	.50	119	15E20E70	ELC-10
15	24	.25	.25	.20	98	15E24E25	ESC-10
15	24	.60	.55	.50	119	15E24E60	ELC-10
15	28	.25	.25	.20	98	15E28E25	ESC-10
15	28	.50	.45	.40	119	15E28E50	ELC-10
24	5	1.25	1.25	1.00	98	24E5E125	ESC-10
24	5	2.50	2.25	2.00	119	24E5E250	ELC-10
24	6	1.00	1.00	.80	98	24E6E100	ESC-10
24	6	2.00	1.80	1.60	119	24E6E200	ELC-10
24	8	.75	.75	.60	98	24E8E75	ESC-10
24	8	1.50	1.35	1.20	119	24E8E150	ELC-10
24	9	.70	.70	.55	98	24E9E70	ESC-10
24	9	1.40	1.25	1.10	119	24E9E140	ELC-10
24	10	.65	.65	.50	98	24E10E65	ESC-10
24	10	1.30	1.15	1.00	119	24E10E130	ELC-10
24	12	.60	.60	.50	98	24E12E60	ESC-10
24	12	1.20	1.10	1.00	119	24E12E120	ELC-10
24	13	.55	.55	.45	98	24E13E55	ESC-10
24	13	1.10	1.00	.90	119	24E13E110	ELC-10
24	15	.50	.50	.40	98	24E15E50	ESC-10
24	15	1.00	.90	.80	119	24E15E100	ELC-10
24	18	.40	.40	.30	98	24E18E40	ESC-10
24	18	.80	.70	.60	119	24E18E80	ELC-10
24	20	.35	.35	.28	98	24E20E35	ESC-10
24	20	.70	.60	.50	119	24E20E70	ELC-10
24	24	.25	.25	.20	98	24E24E25	ESC-10
24	24	.60	.55	.50	119	24E24E60	ELC-10
24	28	.25	.25	.20	98	24E28E25	ESC-10
24	28	.50	.45	.40	119	24E28E50	ELC-10
28	5	1.25	1.25	1.00	98	28E5E125	ESC-10
28	5	2.50	2.25	2.00	119	28E5E250	ELC-10
28	6	1.00	1.00	.80	98	28E6E100	ESC-10
28	6	2.00	1.80	1.60	119	28E6E200	ELC-10
28	8	.75	.75	.60	98	28E8E75	ESC-10
28	8	1.50	1.35	1.20	119	28E8E150	ELC-10
28	9	.70	.70	.55	98	28E9E70	ESC-10
28	9	1.40	1.25	1.10	119	28E9E140	ELC-10
28	10	.65	.65	.50	98	28E10E65	ESC-10
28	10	1.30	1.15	1.00	119	28E10E130	ELC-10
28	12	.60	.60	.50	98	28E12E60	ESC-10
28	12	1.20	1.10	1.00	119	28E12E120	ELC-10
28	13	.55	.55	.45	98	28E13E55	ESC-10
28	13	1.10	1.00	.90	119	28E13E110	ELC-10
28	15	.50	.50	.40	98	28E15E50	ESC-10
28	15	1.00	.90	.80	119	28E15E100	ELC-10
28	18	.40	.40	.30	98	28E18E40	ESC-10
28	18	.80	.70	.60	119	28E18E80	ELC-10
28	20	.35	.35	.28	98	28E20E35	ESC-10
28	20	.70	.60	.50	119	28E20E70	ELC-10
28	24	.25	.25	.20	98	28E24E25	ESC-10
28	24	.60	.55	.50	119	28E24E60	ELC-10
28	28	.25	.25	.20	98	28E28E25	ESC-10
28	28	.50	.45	.40	119	28E28E50	ELC-10
48	5	1.25	1.25	1.00	98	48E5E125	ESC-10
48	6	1.00	1.00	.80	98	48E6E100	ESC-10
48	8	.75	.75	.60	98	48E8E75	ESC-10
48	9	.70	.70	.55	98	48E9E70	ESC-10
48	10	.65	.65	.50	98	48E10E65	ESC-10
48	12	.60	.60	.50	98	48E12E60	ESC-10
48	13	.55	.55	.45	98	48E13E55	ESC-10
48	15	.50	.50	.40	98	48E15E50	ESC-10
48	18	.40	.40	.30	98	48E18E40	ESC-10
48	20	.35	.35	.28	98	48E20E35	ESC-10
48	24	.25	.25	.20	98	48E24E25	ESC-10
48	28	.25	.25	.20	98	48E28E25	ESC-10
120 to 180	Contact factory.						

DUAL TRACKING OUTPUTS

Nominal Input Voltage	Nominal Output Voltages	Amps. per Output at 40°C	55°C	71°C	($) Price	Model	Case Size
5	±10	.30	.30	.25	105	5E10D30	ESC-10
5	±10	.60	.55	.50	125	5E10D60	ELC-10
5	±12	.30	.30	.25	105	5E12D30	ESC-10
5	±12	.60	.55	.50	125	5E12D60	ELC-10
5	±15	.25	.25	.25	105	5E15D25	ESC-10
5	±15	.50	.45	.40	125	5E15D50	ELC-10
5	±18	.20	.20	.20	105	5E18D20	ESC-10
5	±18	.40	.35	.30	125	5E18D40	ELC-10
12	±10	.30	.30	.25	105	12E10D30	ESC-10
12	±10	.60	.55	.50	125	12E10D60	ELC-10
12	±12	.30	.30	.25	105	12E12D30	ESC-10
12	±12	.60	.55	.50	125	12E12D60	ELC-10
12	±15	.25	.25	.25	105	12E15D25	ESC-10
12	±15	.50	.45	.40	125	12E15D50	ELC-10
12	±18	.20	.20	.20	105	12E18D20	ESC-10
12	±18	.40	.35	.30	125	12E18D40	ELC-10
15	±10	.30	.30	.25	105	15E10D30	ESC-10
15	±10	.60	.55	.50	125	15E10D60	ELC-10
15	±12	.30	.30	.25	105	15E12D30	ESC-10
15	±12	.60	.55	.50	125	15E12D60	ELC-10
15	±15	.25	.25	.25	105	15E15D25	ESC-10
15	±15	.50	.45	.40	125	15E15D50	ELC-10

Nominal Input Voltage	Nominal Output Voltages	Amps. per Output at 40°C	55°C	71°C	($) Price	Model	Case Size
15	±18	.20	.20	.20	105	15E18D20	ESC-10
15	±18	.40	.35	.30	125	15E18D40	ELC-10
24	±10	.30	.30	.25	105	24E10D30	ESC-10
24	±10	.60	.55	.50	125	24E10D60	ELC-10
24	±12	.30	.30	.25	105	24E12D30	ESC-10
24	±12	.60	.55	.50	125	24E12D60	ELC-10
24	±15	.25	.25	.25	105	24E15D25	ESC-10
24	±15	.50	.45	.40	125	24E15D50	ELC-10
24	±18	.20	.20	.20	105	24E18D20	ESC-10
24	±18	.40	.35	.30	125	24E18D40	ELC-10
28	±10	.30	.30	.25	105	28E10D30	ESC-10
28	±10	.60	.55	.50	125	28E10D60	ELC-10
28	±12	.30	.30	.25	105	28E12D30	ESC-10
28	±12	.60	.55	.50	125	28E12D60	ELC-10
28	±15	.25	.25	.25	105	28E15D25	ESC-10
28	±15	.50	.45	.40	125	28E15D50	ELC-10
28	±18	.20	.20	.20	105	28E18D20	ESC-10
28	±18	.40	.35	.30	125	28E18D40	ELC-10
48	±10	.30	.30	.25	105	48E10D30	ESC-10
48	±12	.30	.30	.25	105	48E12D30	ESC-10
48	±15	.25	.25	.25	105	48E15D25	ESC-10
48	±18	.20	.20	.20	105	48E18D20	ESC-10

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP