## **DC-DC Converters**



## TEN40 Series, 40 Watt

www.powersolve.co.uk

## **Features**

- Wide 2:1 input range
- High efficiency up to 90%
- I/O isolation 1500VDC
- Operating temperature range -40°C to +75°C
- · Short circuit protection
- · Adjustable output voltages and Remote On/Off
- High power density in a 50.8 x 50.8 x 10.2 mm Metal package
- Models with 2 isolated outputs (3.3V & 5V) & triple outputs



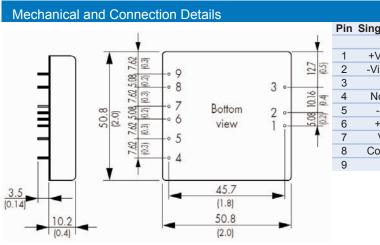
Electrical Specification	
Output Voltage Adjustment	±10% by external resistor (only for single & symmetric dual output models)
Conducted EMI	EN55022 class A & FCC level A (with external capacitor)
Short Circuit Protection	continuous, automatic recovery
Operating Temperature Range	-40°C to +75°C (with derating)
Thermal protection	Shutdown at 115°C
I/O Isolation test voltage	1500VDC
Safety Approvals	cUL/UL 60950-1, IEC/EN 60950-1
Casing	metal, 6-side shielded with insulated baseplate
Remote On/Off	Shutdown input for low input current (2.5mA) in standby operation

TEN 40-1211 5VDC/8.0A 50mV pk-pk max. 0.5% 0.5% 1EN 40-1212 12VDC/3.3A 75mV pk-pk max. 1.0% 1.0% 1.0% 1EN 40-1222 9 - 18V +12VDC/1.8A -12VDC/1.8A 150mV pk-pk max. 1.0% 1.0% 1.0% 1EN 40-1223 +15VDC/1.4A -15VDC/1.4A -12VDC/-0.4A 75mV pk-pk max. 1.0% 1.0% 1.0% 1EN 40-1233 3.3VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-1231 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-1231 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-1231 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-1231 5VDC/6.0A +15VDC/+0.3A -15VDC/-0.3A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-1231 5VDC/6.0A +15VDC/+0.3A -15VDC/-0.3A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-2410 3.3VDC/8.0A 50mV pk-pk max. 0.5% 0.5% 1EN 40-2411 5VDC/8.0A 50mV pk-pk max. 0.5% 0.5% 1EN 40-2412 12VDC/3.3A 75mV pk-pk max. 0.5% 0.5% 1EN 40-2412 12VDC/3.3A 75mV pk-pk max. 0.5% 0.5% 1EN 40-2422 18 - 36V +12VDC/1.8A -12VDC/1.8A 150mV pk-pk max. 1.0% 1.0% 1.0% 1EN 40-2423 +15VDC/1.4A -15VDC/1.4A 150mV pk-pk max. 1.0% 1.0% 1EN 40-2433 3.3VDC/6.0A +12VDC/1.4A 150mV pk-pk max. 1.0% 1.0% 1EN 40-2434 3.3VDC/6.0A +12VDC/1.4A -12VDC/1.4A 150mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-2431 5VDC/6.0A +12VDC/1.4A -15VDC/1.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-2431 5VDC/6.0A +15VDC/1.0A -15VDC/1.0A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-2432 5VDC/6.0A +15VDC/1.0A -15VDC/1.0A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-2432 5VDC/6.0A +15VDC/1.0A -15VDC/1.0A 150mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-4810 3.3VDC/8.0A 50mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-4810 3.3VDC/8.0A 15VDC/1.0A 150mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-4823 415VDC/1.8A -15VDC/1.8A 150mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-4823 415VDC/1.8A -15VDC/1.8A 150mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-4823 415VDC/1.8A -15VDC/1.8A 150mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-4823 415VDC/1.8A -15VDC/1.8A 150mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1EN 40-4834 3.3VDC/6.0A +15VDC/1.8A 150mV pk-	MODEL	INPUT	OUTPUT 1	OUTPUT 2	OUTPUT 3	RIPPLE &	LINE	LOAD	EFF.
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TEN 40-2410 3.3VDC/8.0A 50mV pk-pk max. 0.5% 0.5% 1   TEN 40-2411 5VDC/8.0A 50mV pk-pk max. 0.5% 0.5% 1   TEN 40-2412 12VDC/3.3A 75mV pk-pk max. 0.5% 0.5% 1   TEN 40-2420 *3.3VDC/8.0A *5VDC/8.0A 100mV pk-pk max. 1.0% 1.0% 1   TEN 40-2422 18 - 36V +12VDC/1.8A -12VDC/1.8A 150mV pk-pk max. 1.0% 1.0% 1   TEN 40-2423 +15VDC/1.4A -15VDC/1.4A 150mV pk-pk max. 1.0% 1.0% 1   TEN 40-2433 3.3VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-2434 3.3VDC/6.0A +15VDC/+0.3A -15VDC/-0.3A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-2431 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-2432 5VDC/6.0A +15VDC/+0.3A -15VDC/-0.3A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-4810 3.3VDC/8.0A 50mV pk-pk max. 0.5% 0.5% 1   TEN 40-4811 5VDC/3.3A 75mV pk-pk max. 0.5% 0.5% 1   TEN 40-4812 12VDC/3.3A 75mV pk-pk max. 1.0% 1.0% 1   TEN 40-4820 *3.3VDC/8.0A *5VDC/8.0A 100mV pk-pk max. 1.0% 1.0% 1   TEN 40-4823 +15VDC/1.8A -12VDC/1.8A 150mV pk-pk max. 1.0% 1.0% 1   TEN 40-4823 +15VDC/1.4A -15VDC/1.4A 150mV pk-pk max. 1.0% 1.0% 1   TEN 40-4823 3.3VDC/6.0A +12VDC/1.8A 150mV pk-pk max. 1.0% 1.0% 1   TEN 40-4823 3.3VDC/6.0A +12VDC/1.8A 150mV pk-pk max. 1.0% 1.0% 1   TEN 40-4823 3.3VDC/6.0A +15VDC/1.4A 15VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-4823 3.3VDC/6.0A +12VDC/1.4A -12VDC/-0.4A 75mV pk-pk max. 1.0% 1.0% 1   TEN 40-4834 3.3VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-4834 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-4834 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-4834 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-4834 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-4834 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-4834 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1   TEN 40-4831 5VDC/6.0A +12VDC/+0.4A -12VDC/	TEN 40-1231		5VDC/6.0A	+12VDC/+0.4A	-12VDC/-0.4A	75mV pk-pk max.	1.0%/5.0%	2.0%/5.0%	86%
TEN 40-2411 5VDC/8.0A 50mV pk-pk max. 0.5% 0.5% 1 TEN 40-2412 12VDC/3.3A 75mV pk-pk max. 0.5% 0.5% 1 TEN 40-2420 *3.3VDC/8.0A *5VDC/8.0A 100mV pk-pk max. 1.0% 1.0% 1 TEN 40-2422 18 - 36V +12VDC/1.8A -12VDC/1.8A 150mV pk-pk max. 1.0% 1.0% 1 TEN 40-2423 +15VDC/1.4A -15VDC/1.4A 150mV pk-pk max. 1.0% 1.0% 1 TEN 40-2433 3.3VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-2434 3.3VDC/6.0A +15VDC/+0.3A -15VDC/-0.3A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-2431 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-2432 5VDC/6.0A +15VDC/+0.3A -15VDC/-0.3A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4810 3.3VDC/8.0A 50mV pk-pk max. 0.5% 0.5% 1 TEN 40-4811 5VDC/8.0A 50mV pk-pk max. 0.5% 0.5% 1 TEN 40-4820 *3.3VDC/8.0A *5VDC/8.0A 100mV pk-pk max. 1.0% 1.0% 1.0% 1 TEN 40-4820 *3.3VDC/8.0A *5VDC/8.0A 100mV pk-pk max. 1.0% 1.0% 1.0% 1 TEN 40-4823 +15VDC/1.4A -12VDC/+0.4A 150mV pk-pk max. 1.0% 1.0% 1.0% 1 TEN 40-4823 36 - 75V +12VDC/1.8A -12VDC/1.8A 150mV pk-pk max. 1.0% 1.0% 1.0% 1 TEN 40-4833 3.3VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4834 3.3VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4834 3.3VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4834 3.3VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4834 5.VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4834 5.VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4834 5.VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4834 5.VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4831 5.VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4831 5.VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4831 5.VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 1 TEN 40-4831 5.VDC/6.0A +12VDC/+0.4A -12V	TEN 40-1232		5VDC/6.0A	+15VDC/+0.3A	-15VDC/-0.3A	75mV pk-pk max.	1.0%/5.0%	2.0%/5.0%	86%
TEN 40-2412	TEN 40-2410		3.3VDC/8.0A			50mV pk-pk max.	0.5%	0.5%	87%
TEN 40-2412	TEN 40-2411		5VDC/8.0A			50mV pk-pk max.	0.5%	0.5%	89%
TEN 40-2422 18 - 36V +12VDC/1.8A -12VDC/1.8A 150mV pk-pk max. 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0	TEN 40-2412		12VDC/3.3A				0.5%	0.5%	88%
TEN 40-2423	ΓΕΝ 40-2420		*3.3VDC/8.0A	*5VDC/8.0A		100mV pk-pk max.	1.0%	1.0%	86%
TEN 40-2433         3.3VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-2434         3.3VDC/6.0A         +15VDC/+0.3A         -15VDC/-0.3A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-2431         5VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-2432         5VDC/6.0A         +15VDC/+0.3A         -15VDC/-0.3A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4810         3.3VDC/8.0A         50mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4811         5VDC/8.0A         50mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4812         12VDC/3.3A         75mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4820         *3.3VDC/8.0A         *5VDC/8.0A         100mV pk-pk max.         1.0%         1.0%           TEN 40-4823         +12VDC/1.8A         -12VDC/1.8A         150mV pk-pk max.         1.0%         1.0%           TEN 40-4833         3.3VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4834 <td>TEN 40-2422</td> <td>18 - 36V</td> <td>+12VDC/1.8A</td> <td>-12VDC/1.8A</td> <td></td> <td>150mV pk-pk max.</td> <td>1.0%</td> <td>1.0%</td> <td>87%</td>	TEN 40-2422	18 - 36V	+12VDC/1.8A	-12VDC/1.8A		150mV pk-pk max.	1.0%	1.0%	87%
TEN 40-2434         3.3VDC/6.0A         +15VDC/+0.3A         -15VDC/-0.3A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-2431         5VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-2432         5VDC/6.0A         +15VDC/+0.3A         -15VDC/-0.3A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4810         3.3VDC/8.0A         50mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4811         5VDC/8.0A         50mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4812         12VDC/3.3A         75mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4820         *3.3VDC/8.0A         *5VDC/8.0A         100mV pk-pk max.         1.0%         1.0%           TEN 40-4822         36 - 75V         +12VDC/1.8A         -12VDC/1.8A         150mV pk-pk max.         1.0%         1.0%           TEN 40-4823         +15VDC/1.4A         -15VDC/1.4A         150mV pk-pk max.         1.0%         1.0%           TEN 40-4834         3.3VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4831 <th< td=""><td>ΓΕΝ 40-2423</td><td></td><td>+15VDC/1.4A</td><td>-15VDC/1.4A</td><td></td><td>150mV pk-pk max.</td><td>1.0%</td><td>1.0%</td><td>87%</td></th<>	ΓΕΝ 40-2423		+15VDC/1.4A	-15VDC/1.4A		150mV pk-pk max.	1.0%	1.0%	87%
TEN 40-2431         5VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-2432         5VDC/6.0A         +15VDC/+0.3A         -15VDC/-0.3A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4810         3.3VDC/8.0A         50mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4811         5VDC/8.0A         50mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4812         12VDC/3.3A         75mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4820         *3.3VDC/8.0A         *5VDC/8.0A         100mV pk-pk max.         1.0%         1.0%           TEN 40-4822         36 - 75V         +12VDC/1.8A         -12VDC/1.8A         150mV pk-pk max.         1.0%         1.0%           TEN 40-4823         +15VDC/1.4A         -15VDC/1.4A         150mV pk-pk max.         1.0%         1.0%           TEN 40-4833         3.3VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4834         5VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%	ΓΕΝ 40-2433		3.3VDC/6.0A	+12VDC/+0.4A	-12VDC/-0.4A	75mV pk-pk max.	1.0%/5.0%	2.0%/5.0%	85%
TEN 40-2431         5VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-2432         5VDC/6.0A         +15VDC/+0.3A         -15VDC/-0.3A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4810         3.3VDC/8.0A         50mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4811         5VDC/8.0A         50mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4812         12VDC/3.3A         75mV pk-pk max.         0.5%         0.5%         0.5%           TEN 40-4820         *3.3VDC/8.0A         *5VDC/8.0A         100mV pk-pk max.         1.0%         1.0%           TEN 40-4822         36 - 75V         +12VDC/1.8A         -12VDC/1.8A         150mV pk-pk max.         1.0%         1.0%           TEN 40-4823         +15VDC/1.4A         -15VDC/1.4A         150mV pk-pk max.         1.0%         1.0%           TEN 40-4834         3.3VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4831         5VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%	TEN 40-2434		3.3VDC/6.0A	+15VDC/+0.3A	-15VDC/-0.3A	75mV pk-pk max.	1.0%/5.0%	2.0%/5.0%	85%
TEN 40-4810         3.3VDC/8.0A         50mV pk-pk max.         0.5%         0.5%           TEN 40-4811         5VDC/8.0A         50mV pk-pk max.         0.5%         0.5%           TEN 40-4812         12VDC/3.3A         75mV pk-pk max.         0.5%         0.5%           TEN 40-4820         *3.3VDC/8.0A         *5VDC/8.0A         100mV pk-pk max.         1.0%         1.0%           TEN 40-4822         36 - 75V         +12VDC/1.8A         -12VDC/1.8A         150mV pk-pk max.         1.0%         1.0%           TEN 40-4823         +15VDC/1.4A         -15VDC/1.4A         150mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4834         3.3VDC/6.0A         +15VDC/+0.4A         -12VDC/-0.3A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4831         5VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%	TEN 40-2431		5VDC/6.0A		-12VDC/-0.4A		1.0%/5.0%	2.0%/5.0%	87%
TEN 40-4811         5VDC/8.0A         50mV pk-pk max.         0.5%         0.5%           TEN 40-4812         12VDC/3.3A         75mV pk-pk max.         0.5%         0.5%           TEN 40-4820         *3.3VDC/8.0A         *5VDC/8.0A         100mV pk-pk max.         1.0%         1.0%           TEN 40-4822         36 - 75V         +12VDC/1.8A         -12VDC/1.8A         150mV pk-pk max.         1.0%         1.0%           TEN 40-4823         +15VDC/1.4A         -15VDC/1.4A         150mV pk-pk max.         1.0%         1.0%           TEN 40-4833         3.3VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4834         3.3VDC/6.0A         +12VDC/+0.4A         -15VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           TEN 40-4831         5VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%	TEN 40-2432		5VDC/6.0A	+15VDC/+0.3A	-15VDC/-0.3A	75mV pk-pk max.	1.0%/5.0%	2.0%/5.0%	87%
TEN 40-4812       12VDC/3.3A       75mV pk-pk max.       0.5%       0.5%         TEN 40-4820       *3.3VDC/8.0A       *5VDC/8.0A       100mV pk-pk max.       1.0%       1.0%         TEN 40-4822       36 - 75V       +12VDC/1.8A       -12VDC/1.8A       150mV pk-pk max.       1.0%       1.0%         TEN 40-4823       +15VDC/1.4A       -15VDC/1.4A       150mV pk-pk max.       1.0%       1.0%         TEN 40-4833       3.3VDC/6.0A       +12VDC/+0.4A       -12VDC/-0.4A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%         TEN 40-4834       3.3VDC/6.0A       +15VDC/+0.3A       -15VDC/-0.3A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%         TEN 40-4831       5VDC/6.0A       +12VDC/+0.4A       -12VDC/-0.4A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%	ΓΕΝ 40-4810		3.3VDC/8.0A			50mV pk-pk max.	0.5%	0.5%	88%
TEN 40-4812 12VDC/3.3A 75mV pk-pk max. 0.5% 0.5% 75mV 40-4820 *3.3VDC/8.0A *5VDC/8.0A 100mV pk-pk max. 1.0% 1.0% 75mV 40-4822 36 - 75V +12VDC/1.8A -12VDC/1.8A 150mV pk-pk max. 1.0% 1.0% 75mV 40-4823 +15VDC/1.4A -15VDC/1.4A 150mV pk-pk max. 1.0% 1.0% 75mV 40-4833 3.3VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 75mV 40-4834 3.3VDC/6.0A +15VDC/+0.3A -15VDC/-0.3A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 75mV 40-4831 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% 75mV 40-4831	TEN 40-4811		5VDC/8.0A			50mV pk-pk max.	0.5%	0.5%	90%
TEN 40-4820         *3.3VDC/8.0A         *5VDC/8.0A         100mV pk-pk max.         1.0%         1.0%           FEN 40-4822         36 - 75V         +12VDC/1.8A         -12VDC/1.8A         150mV pk-pk max.         1.0%         1.0%           FEN 40-4823         +15VDC/1.4A         -15VDC/1.4A         150mV pk-pk max.         1.0%         1.0%           FEN 40-4833         3.3VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           FEN 40-4834         3.3VDC/6.0A         +15VDC/+0.3A         -15VDC/-0.3A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%           FEN 40-4831         5VDC/6.0A         +12VDC/+0.4A         -12VDC/-0.4A         75mV pk-pk max.         1.0%/5.0%         2.0%/5.0%	ΓΕΝ 40-4812		12VDC/3.3A				0.5%	0.5%	89%
TEN 40-4823       +15VDC/1.4A       -15VDC/1.4A       150mV pk-pk max.       1.0%       1.0%         TEN 40-4833       3.3VDC/6.0A       +12VDC/+0.4A       -12VDC/-0.4A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%         TEN 40-4834       3.3VDC/6.0A       +15VDC/+0.3A       -15VDC/-0.3A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%         TEN 40-4831       5VDC/6.0A       +12VDC/+0.4A       -12VDC/-0.4A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%	TEN 40-4820		*3.3VDC/8.0A	*5VDC/8.0A		100mV pk-pk max.		1.0%	88%
TEN 40-4823       +15VDC/1.4A       -15VDC/1.4A       150mV pk-pk max.       1.0%       1.0%         TEN 40-4833       3.3VDC/6.0A       +12VDC/+0.4A       -12VDC/-0.4A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%         TEN 40-4834       3.3VDC/6.0A       +15VDC/+0.3A       -15VDC/-0.3A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%         TEN 40-4831       5VDC/6.0A       +12VDC/+0.4A       -12VDC/-0.4A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%	TEN 40-4822	36 - 75V	+12VDC/1.8A	-12VDC/1.8A		150mV pk-pk max.	1.0%	1.0%	87%
TEN 40-4833       3.3VDC/6.0A       +12VDC/+0.4A       -12VDC/-0.4A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%         TEN 40-4834       3.3VDC/6.0A       +15VDC/+0.3A       -15VDC/-0.3A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%         TEN 40-4831       5VDC/6.0A       +12VDC/+0.4A       -12VDC/-0.4A       75mV pk-pk max.       1.0%/5.0%       2.0%/5.0%	TEN 40-4823		+15VDC/1.4A	-15VDC/1.4A		150mV pk-pk max.		1.0%	87%
TEN 40-4834 3.3VDC/6.0A +15VDC/+0.3A -15VDC/-0.3A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0% TEN 40-4831 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0%	TEN 40-4833		3.3VDC/6.0A	+12VDC/+0.4A	-12VDC/-0.4A			2.0%/5.0%	86%
TEN 40-4831 5VDC/6.0A +12VDC/+0.4A -12VDC/-0.4A 75mV pk-pk max. 1.0%/5.0% 2.0%/5.0%									86%
	TEN 40-4831								88%
1EN 40-4032 3VDC/0.UA +13VDC/+0.3A -13VDC/+0.3A /3HIV pk-pk HiaX. 1.0%/3.0% 2.0%/3.0%	TEN 40-4832		5VDC/6.0A	+15VDC/+0.3A	-15VDC/-0.3A	75mV pk-pk max.	1.0%/5.0%	2.0%/5.0%	88%

## **DC-DC Converters**



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Pin	Single Output	<b>Dual Output</b>	<b>Dual Output</b>	Triple Output
		symmetric	asymmetric	
1	+Vin (Vcc)	+Vin (Vcc)	+Vin (Vcc)	+Vin (Vcc)
2	-Vin (GND)	-Vin (GND)	-Vin (GND)	-Vin (GND)
3		Remote	On/Off	
4	No Conn.	No Pin	Vout 1	+Vout 2
5	-Sense	Vout 1	Common 1	Common 2
6	+Sense	Common 1/2	No Conn.	-Vout 2
7	Vout 1	Common 1/2	No Conn.	Vout 1
8	Common 1	Vout 2	Vout 2	Common 1
9	Trim	Trim	Common 2	No Conn.