



detailed application note in process

30W, Wide Input Range, Single & Dual Output DC/DC Converters

Features

- Highest power density 30W converter!
 Ultra compact size: 1.0" x 1.0" x 0.4"
- Shielded metal case with isolated baseplate
- ♦ Wide 2:1 input voltage range
- Very high efficiency across full load range up to 92%
- No minimum load required
- ◆ Remote On/Off control
- Operating temp. range -40°C to +80°C and up to 85 °C with heat-sink
- Over temperature protection
- Output voltage adjustable
- ◆ I/O isolation voltage 1500 VDC

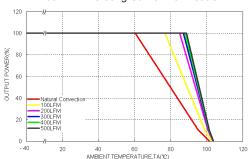




Temperature Derating

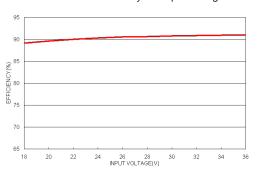
THN 30-2411 Derating Curve

THN 30-2411 Derating Curve With Heat-sink

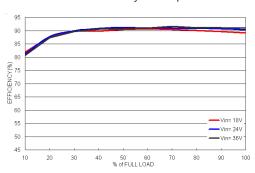


Efficiency

THN 30-2411 Efficiency VS Input Voltage



THN 30-2411 Efficiency VS Output Current



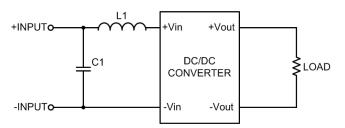






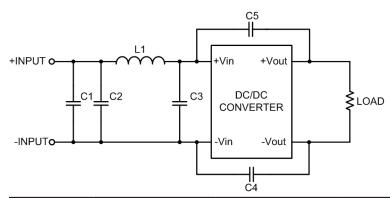
Electromagnetic Emission

Conducted and radiated emissions EN55022 Class A



	C1	L1	
THN 30-12xx	4.7μF/25V 1812 MLCC	2.2µH	
THN 30-24xx	4.7μF/50V 1812 MLCC	2.2µH	
THN 30-48xx	4.7μF/100V 1812 MLCC	10µH	

Conducted and radiated emissions EN55022 Class B



	C1	C2	C3	C4 & C5	L1
THN 30-12xx	4.7μF/25V 1812 MLCC	4.7μF/25V 1812 MLCC	4.7μF/25V 1812 MLCC	1000pF/2KV 1206 MLCC	2.2µH
THN 30-24xx	4.7μF/50V 1812 MLCC	4.7μF/50V 1812 MLCC	4.7µF/50V 1812 MLCC	1000pF/2KV 1206 MLCC	2.2µH
THN 30-48xx	4.7µF/100V 1812 MLCC	4.7µF/100V 1812 MLCC	4.7µF/100V 1812 MLCC	2200pF/2KV 1206MLCC	10μΗ

Output Voltage Adjustment (for single output models only)



Specifications can be changed without notice! Make sure you are using the latest documentation, downloadable at www.tracopower.com