

## 30W DC-DC Converters

### Features

- ◆ Industry Standard 1" x 1" Footprint
- ◆ Wide Range DC Input 9 - 36 or 18 - 76V
- ◆ High Efficiency - Up to 91%
- ◆ Six Sided Shielding



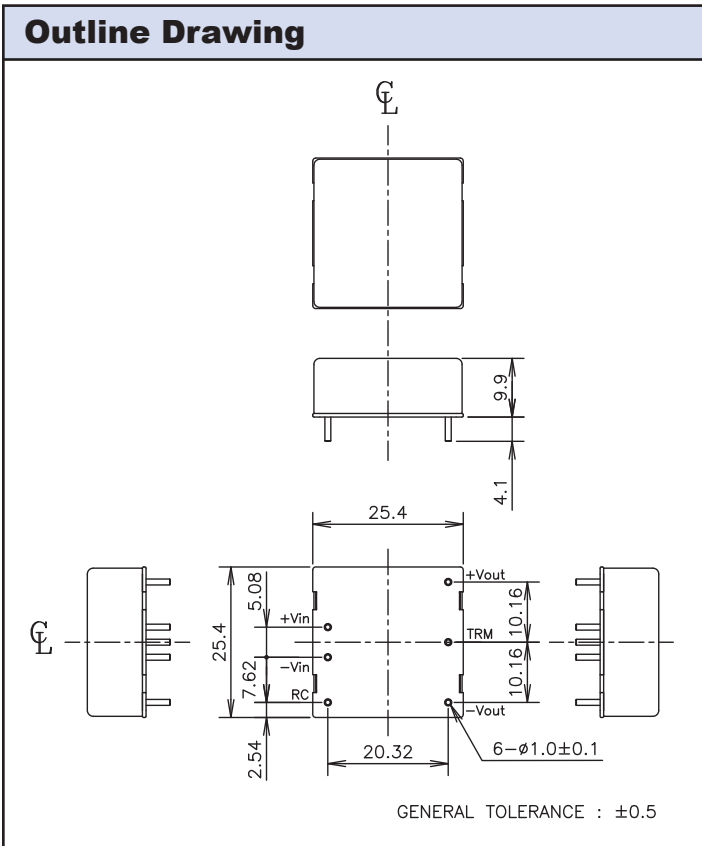
### Key Market Segments & Applications



Specifications		CCG30			
Model		3.3	5V	12V	15V
Nominal Output Voltage	VDC	3.3	5V	12V	15V
Input Voltage Range	VDC	9 - 36V or 18 - 76VDC			
Input Current	A	0.55 - 1.4A (model dependant)			
Output Voltage Adjustment	VDC	2.97 - 3.63	4.5 - 5.5	10.8 - 13.2	13.5 - 16.5
Output Voltage Accuracy	%	±2%			
Ripple & Noise (max) pk-pk	mV	70	70	95	95
Line Regulation (max)	mV	13.2	20	48	60
Load Regulation (max)	mV	13.2	20	48	60
Overcurrent Protection	%	>105% (Hiccup current style)			
Overvoltage Protection	%	TBA			
Remote On/Off	-	Yes; Low = ON, Open = OFF			
Operating Temperature	°C	-40°C to +110°C Case, -40°C to +85°C Ambient. See inst. manual for operation above 60°C			
Storage Temperature	°C	-55°C to +125°C			
Temperature Coefficient	%/°C	0.02%/°C			
Humidity (non condensing)	%RH	5 - 95% RH Operating and Non Operating			
Cooling	-	Convection or forced air			
Withstand Voltage	VDC	Input to Case: 1kVDC; Input to Output 1.5kVDC; Output to Case: 1kVDC			
Isolation Resistance	MΩ	>100M at 25C and 70%RH, Output to Case 500VDC			
Vibration	-	Non Operating, 10-55Hz (sweep for 3 min.) Amplitude 1.52mm constant (Max 98m/s <sup>2</sup> ) X,Y,Z 1 hour each			
Shock	-	490.3m/s <sup>2</sup>			
Safety Agency Certifications	-	UL60950-1, CSA60950-1, EN60950-1, CE Mark			
Weight (Typ)	g	20g			
Size (WxHxD)	in (mm)	1.0 x 0.39 x 1.0" (25.4 x 9.9 x 25.4)			
Warranty	yrs	5 Years			

Note: See Installation Manual for full details, test methods of parameters and application notes

Output Ratings						
Model	Output Voltage (V)	Output Current (A)	Input Voltage (V)	Maximum Power (W)	Input Current at Nominal Input (A)	Efficiency (%) (100% load, nominal input)
CCG30-24-03S	3.3	7	9 - 36	23.1	1.12	86
CCG30-24-05S	5	6	9 - 36	30.0	1.4	89
CCG30-24-12S	12	2.5	9 - 36	30.0	1.4	89
CCG30-24-15S	15	2	9 - 36	30.0	1.4	89
CCG30-48-03S	3.3	7	18 - 76	23.1	0.55	87
CCG30-48-05S	5	6	18 - 76	30.0	0.69	90
CCG30-48-12S	12	2.5	18 - 76	30.0	0.69	90
CCG30-48-15S	15	2	18 - 76	30.0	0.69	91



For Additional Information, please visit [us.tdk-lambda.com/lp/products/ccg-series.htm](http://us.tdk-lambda.com/lp/products/ccg-series.htm)

