



## 30W DC-DC Converters



Features	Benefits
• Industry Standard 1" x 1" Footprint	• Fits in place of 2 x 1" converters
• Wide Range DC Input 9 - 36 or 18 - 76V	• Less Parts to Inventory
• High Efficiency - Up to 91%	• Easier System Thermal Management
• Six Sided Shielding	• Reduced Radiated Noise

Specification		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	%	No			
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	Ω	<100MΩ at 25°C 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>			
Agency Safety Certifications	-	UL60950-1, CSA60950-1, EN60950-1, CE Mark			
Weight (Typ)	g	20			
Size (WxHxD)	mm	25.4 x 9.9 x 25.4			
Warranty	yrs	5			

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

**Model Selector Single Output**

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

**Outline Drawing CCG30**

