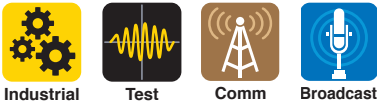




## 15 to 30W DC-DC Converters



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 92%	• Easier System Thermal Management
• Six Sided Shielding	• Reduced Radiated Noise

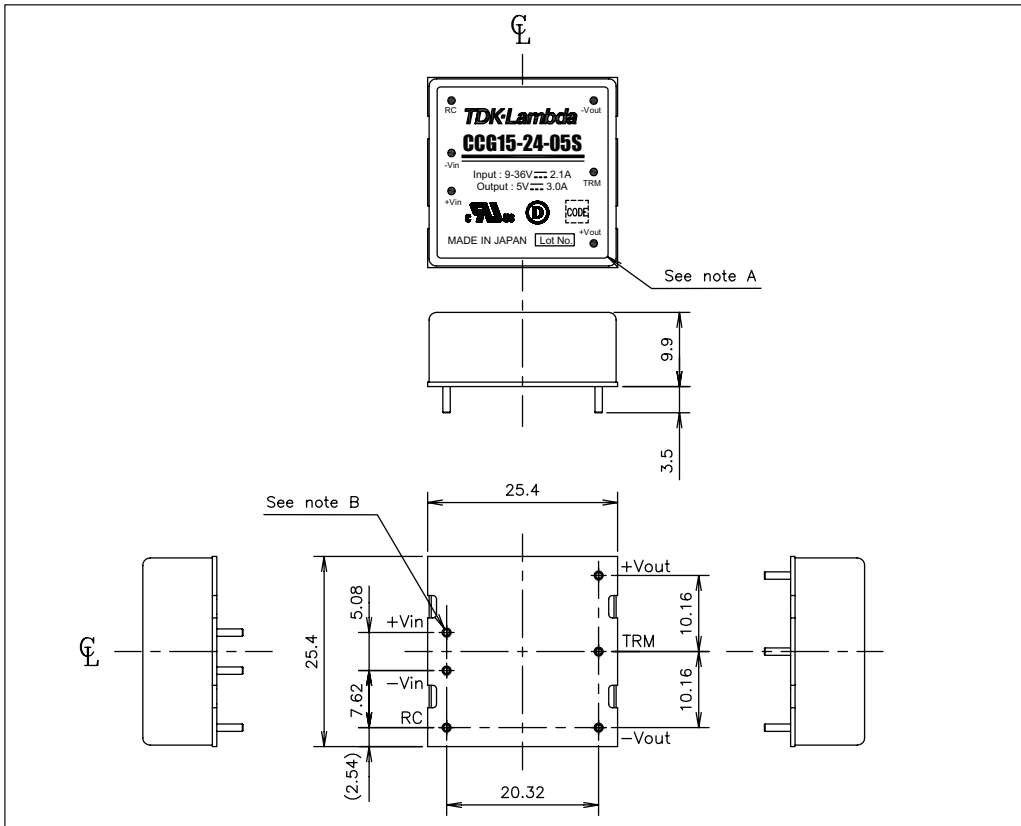


Specification		CCG15/CCG30					
Model		3.3V	5V	12V	15V	±12V	±15V
Nominal Output Voltage	VDC	3.3V	5V	12V	15V	±12V	±15V
Input Voltage Range	VDC	9 - 36V or 18 - 76VDC					
Input Current	A	See model selector					
Output Voltage Adjustment	VDC	2.97 - 3.63	4.5 - 5.5	10.8 - 13.2	13.5 - 16.5	None	
Output Voltage Accuracy	%	±2%				±5%	
Ripple & Noise (max) pk-pk	mV	70	70	95	95	95	95
Line Regulation (max)	mV	13.2	20	48	60	60	75
Load Regulation (max)	mV	13.2	20	48	60	120	150
Cross Regulation (1)	mV	Not applicable				480	600
Overcurrent Protection	%	>105% (Hiccup current style)					
Overvoltage Protection	%	-					
Remote On/Off		-Yes; Low = ON, Open = OFF					
Operating Temperature	°C	-40°C to +110°C Case, -40°C to +85°C Ambient. See installation 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	VAC	Input to Case: 1kVDC; Input to Output 1.5kVDC; Output to Case: 1kVDC					
Isolation Resistance	MΩ	>100M at 25°C and 70%RH, Output to Case 500VDC					
Vibration	-	Non Operating, 10-55Hz (sweep for 3 min.) Amplitude 1.52mm constant (Max 90.8m/s <sup>2</sup> ) X,Y,Z 1 hour each					
Shock	-	490.3m/s <sup>2</sup>					
Safety Agency Certifications	-	IEC/EN/UL/CSA60950-1, IEC/EN/UL/CSA62368-1 and CE Mark					
Weight (Typ)	g	20					
Size (WxHxD)	mm	25.4 x 9.9 x 25.4					
Warranty	yrs	5					

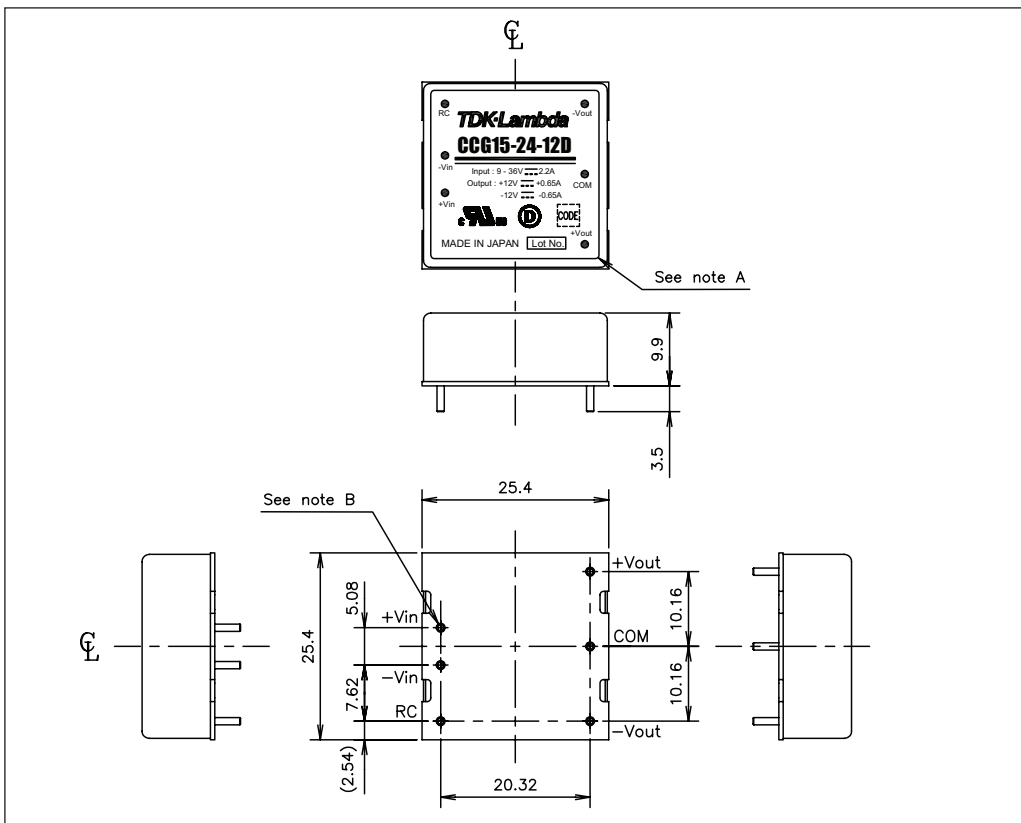
**Note:** See Installation Manual for full details, test methods of parameters and application notes (1) Dual outputs only. One output at 100%, the other output at 20% load

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)
CCG15-24-03S	3.3	4	9 - 36	13.2	0.65	85
CCG30-24-03S	3.3	7	9 - 36	23.1	1.12	86
CCG15-24-05S	5	3	9 - 36	15.0	0.72	87
CCG30-24-05S	5	6	9 - 36	30.0	1.4	89
CCG15-24-12S	12	1.3	9 - 36	15.6	0.74	88
CCG30-24-12S	12	2.5	9 - 36	30.0	1.4	89
CCG15-24-15S	15	1	9 - 36	15.0	0.71	88
CCG30-24-15S	15	2	9 - 36	30.0	1.4	89
CCG15-24-12D	±12V	±0.65	9 - 36	15.6	0.73	89
CCG30-24-12D	±12V	±1.25	9 - 36	30.0	1.4	89
CCG15-24-15D	±15V	±0.5	9 - 36	15.0	0.7	90
CCG30-24-15D	±15V	±1.0	9 - 36	30.0	1.38	91
CCG15-48-03S	3.3	4	18 - 76	13.2	0.32	85
CCG30-48-03S	3.3	7	18 - 76	23.1	0.55	87
CCG15-48-05S	5	3	18 - 76	15.0	0.36	87
CCG30-48-05S	5	6	18 - 76	30.0	0.69	90
CCG15-48-12S	12	1.3	18 - 76	15.6	0.37	88
CCG30-48-12S	12	2.5	18 - 76	30.0	0.69	90
CCG15-48-15S	15	1	18 - 76	15.0	0.36	88
CCG30-48-15S	15	2	18 - 76	30.0	0.69	91
CCG15-48-12D	±12V	±0.65	18 - 76	15.6	0.37	89
CCG30-48-12D	±12V	±1.25	18 - 76	30.0	0.69	91
CCG15-48-15D	±15V	±0.5	18 - 76	15.0	0.35	90
CCG30-48-15D	±15V	±1.0	18 - 76	30.0	0.68	92

## Outline Drawing CCG15-30 Series Single Output



## Outline Drawing CCG15-30 Series Dual Output





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