

**CCG15-48-xxD**

C283-01-01B

(This specification sheet also apply to option model /P)

SPECIFICATIONS (1/2)

MODEL		CCG15-48-12D	CCG15-48-15D
ITEMS			
<b>INPUT</b>			
Input Voltage Range	VDC	18 - 76	
Efficiency (Typ) (*1)	%	89	90
Input Current (Typ) (*1)	A	0.37	0.35
<b>OUTPUT</b>			
Nominal Output Voltage	VDC	±12	±15
Output Voltage Accuracy (*1)	%	±5	
Maximum Output Current	A	0.65	0.5
Maximum Output Power	W	15.6	15
Maximum Line Regulation (*2)	mV	60	75
Maximum Load Regulation (*3)	mV	120	150
Maximum Load Regulation (*10)	mV	480	600
Temperature Coefficient	-	0.02%/°C	
Maximum Ripple & Noise (*4)	mVp-p	95	95
Output Voltage Range	-	Fixed	
Over Current Protection (*5)	-	105% minimum	
Over Voltage Protection	-	None	
<b>FUNCTION</b>			
Remote ON/OFF Control (*6)	-	Possible	
Remote Sensing	-	None	
Parallel Operation	-	None	
Series Operation (*6)	-	Possible	
<b>ENVIRONMENT</b>			
Operating Temperature (*7)	-	-40°C - +110°C(Case) , -40°C - +85°C(Ambient)	
Storage Temperature	-	-55°C - +125°C	
Operating Humidity	-	5 - 95%RH (No Condensing)	
Storage Humidity	-	5 - 95%RH (No Condensing)	
Vibration (*8)	-	At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s <sup>2</sup> ) X,Y,Z 1 hour each	
Shock (*8)	-	490.3m/s <sup>2</sup>	
Cooling	-	Convection cooled / Forced air cooled	
<b>ISOLATION</b>			
Withstand Voltage (*9)	-	Input-Case : 1.0kVDC for 1min. (10mA) , Input-Output : 1.5kVDC for 1min. (10mA) Output-Case : 1.0kVDC for 1min. (10mA)	
Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH, Output - Case 500VDC	
<b>STANDARD AND COMPLIANCE</b>			
Safety	-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1,CSA60950-1	
<b>MECHANICAL</b>			
Weight (Typ.)	g	20	
Size (W x H x D)	mm	25.4 x 9.9 x 25.4 (Refer to Outline Drawing)	

**CCG15-48-xxD**

C283-01-01B

## SPECIFICATIONS (2/2)

\*Read Instruction Manual carefully, before using the power supply unit.

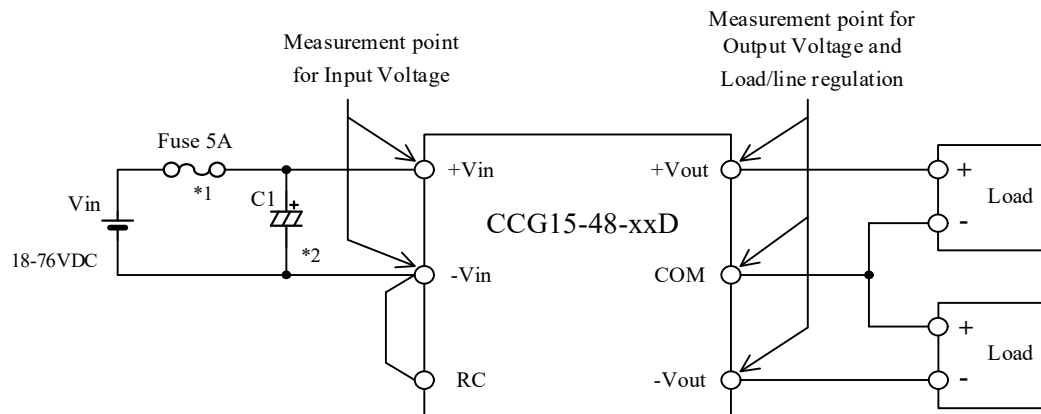
=NOTES=

- \*1. At 48VDC input voltage and maximum output current. (Ambient Temperature = +25°C.)
- \*2. 18 - 76VDC input voltage, constant load.
- \*3. No Load - Full Load, constant input voltage. (Balanced load)
- \*4. External components are needed for operation. (Refer to Instruction Manual.)
- \*5. OCP TYPE : Hiccup, Automatic recovery.
- \*6. Refer to Instruction Manual.
- \*7. Rating - Refer to Derating Curve in Instruction Manual.
- \*8. The result is evaluated by TDK-Lambda standard measurement conditions.  
The final equipment should be evaluated to meet its requirements.
- \*9. This specification applies to power supply module as stand-alone.
- \*10. One side fixed Full Load, the other side 20% - Full Load, Constant input voltage. (Asymmetrical load)

**CCG15-48-xxD**

C283-01-02A

BASIC CONNECTION



\*Read instruction manual carefully, before using the power supply unit.

==NOTES==

\*1. Use an external DC fuse (fast blow type or normal blow type) for each unit.

\*2. Put input capacitor.

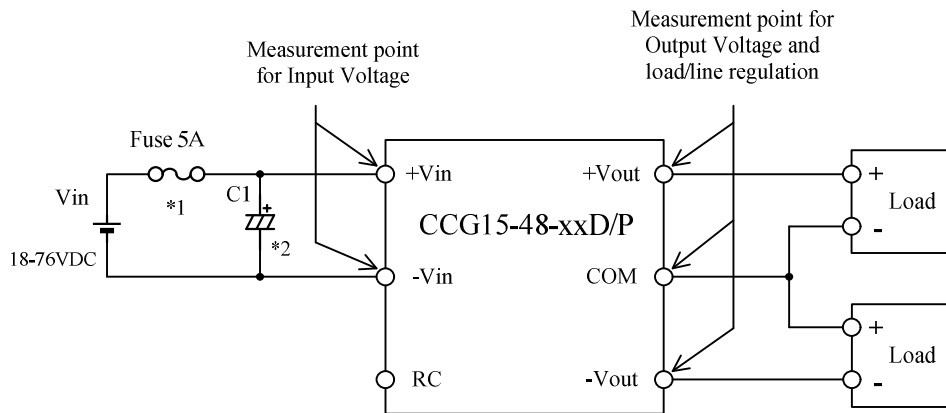
$C1$  : Electrolytic capacitor More than 100V, 47 $\mu$ F

- 1) Use low impedance electrolytic capacitor with excellent temperature characteristics.
- 2) If the impedance of input line is high,  $C1$  capacitance must be more than above.

**CCG15-48-xxD/P**

C283-01-02/P-A

BASIC CONNECTION



\*Read instruction manual carefully, before using the power supply unit.

==NOTES==

\*1. Use an external DC fuse (fast blow type or normal blow type) for each unit.

\*2. Put input capacitor.

C1 : Electrolytic capacitor More than 100V, 47uF

1) Use low impedance electrolytic capacitor with excellent temperature characteristics.

2) If the impedance of input line is high, C1 capacitance must be more than above.