CCG15-48-xxD

C283-01-01C

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

SPECIFICATIONS (1/2)

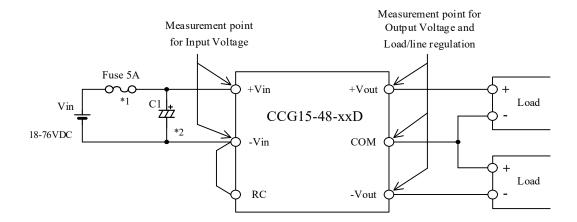
INPUT Input Voltage Range	MODEL CCG15-48-12D CCG1	ODEL CCG15-48-12D CCG15-48-15	D	
Efficiency (Typ)				
Efficiency (Typ)	VDC 18 - 76	VDC 18 - 76	18 - 76	
Input Current (Typ)				
Nominal Output Voltage	` '			
Output Voltage Accuracy				
Maximum Output Current	e VDC ±12	VDC ±12 ±15		
Maximum Output Power	cy (*1) % ±5	(*1) % ±5		
Maximum Line Regulation (*2) mV 60 75	ent A 0.65	A 0.65 0.5		
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 FUNCTION Remote ON/OFF Control (*6) - Possible Remote Sensing - None Parallel Operation - None Series Operation (*6) - Possible ENVIRONMENT Operating Temperature - -40°C - +110°C(Case) , -40°C - +85°C(Ambient) Storage Temperature - -55°C - +125°C Operating Humidity - 5 - 95%RH (Non Condensing) Storage Humidity - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour extends	r W 15.6	W 15.6 15		
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 FUNCTION Remote ON/OFF Control (*6) - Possible Remote Sensing - None Parallel Operation - None Series Operation (*6) - Possible ENVIRONMENT - - Operating Temperature (*7) - - - Storage Temperature - - - Operating Humidity - 5 - 95%RH (Non Condensing) Storage Humidity - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour extends	ion (*2) mV 60	(*2) mV 60 75		
Temperature Coefficient	tion (*3) mV 120	(*3) mV 120 150		
Maximum Ripple & Noise	tion (*10) mV 480	(*10) mV 480 600		
Output Voltage Range Over Current Protection Over Voltage Protection Over Voltage Protection FUNCTION Remote ON/OFF Control Remote Sensing Parallel Operation Series Operation ENVIRONMENT Operating Temperature Storage Temperature Operating Humidity Storage Humidity Storage Humidity Vibration (*8) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour expectage in the storage in the s	t - 0.02%/°C	- 0.02%/°C		
Over Current Protection	ise (*4) mVp-p 95	(*4) mVp-p 95 95		
Over Voltage Protection	- Fixed	- Fixed		
FUNCTION Remote ON/OFF Control (*6) - Possible Remote Sensing - None Parallel Operation - None Series Operation (*6) - Possible ENVIRONMENT Operating Temperature (*7)40°C - +110°C(Case), -40°C - +85°C(Ambient) Storage Temperature55°C - +125°C Operating Humidity - 5 - 95%RH (Non Condensing) Storage Humidity - 5 - 95%RH (Non Condensing) Vibration (*8) - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour experiments.	(*5) - 105% minimum	(*5) - 105% minimum	105% minimum	
Remote ON/OFF Control (*6) - Possible Remote Sensing - None Parallel Operation - None Series Operation (*6) - Possible ENVIRONMENT Operating Temperature (*7)40°C - +110°C(Case) , -40°C - +85°C(Ambient) Storage Temperature55°C - +125°C Operating Humidity - 5 - 95%RH (Non Condensing) Storage Humidity - 5 - 95%RH (Non Condensing) Vibration (*8) - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour experiments.	None	- None	None	
Remote Sensing Parallel Operation Series Operation (*6) - Possible ENVIRONMENT Operating Temperature Storage Temperature Operating Humidity Storage Humidity Storage Humidity - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour expenses the sensing series and the sensing series are series and the sensing series and the sensing series are series and the sensing series and the sensing series are series and the series are series and the sensing series are series and the series are series and the series are series are series and the series are series and the series are series are series and the series are series and the series are series are series are series and the series are series and the series are series are series are series and the series ar				
Parallel Operation - None Series Operation (*6) - Possible ENVIRONMENT Operating Temperature (*7)40°C - +110°C(Case), -40°C - +85°C(Ambient) Storage Temperature55°C - +125°C Operating Humidity - 5 - 95%RH (Non Condensing) Storage Humidity - 5 - 95%RH (Non Condensing) Vibration (*8) - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour expressions.	ol (*6) - Possible	(*6) - Possible	Possible	
Series Operation (*6) - Possible ENVIRONMENT Operating Temperature (*7)40°C - +110°C(Case) , -40°C - +85°C(Ambient) Storage Temperature55°C - +125°C Operating Humidity - 5 - 95%RH (Non Condensing) Storage Humidity - 5 - 95%RH (Non Condensing) Vibration (*8) - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour expressions.	- None	- None	None	
ENVIRONMENT Operating Temperature (*7)40°C - +110°C(Case), -40°C - +85°C(Ambient) Storage Temperature55°C - +125°C Operating Humidity - 5 - 95%RH (Non Condensing) Storage Humidity - 5 - 95%RH (Non Condensing) Vibration (*8) - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour expressions.	- None	- None	None	
Operating Temperature (*7) - 40°C - +110°C(Case) , -40°C - +85°C(Ambient) Storage Temperature - 55°C - +125°C Operating Humidity - 5 - 95%RH (Non Condensing) Storage Humidity - 5 - 95%RH (Non Condensing) Vibration (*8) - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour expression	(*6) - Possible	(*6) - Possible	Possible	
Storage Temperature - 55°C - +125°C Operating Humidity - 5 - 95%RH (Non Condensing) Storage Humidity - 5 - 95%RH (Non Condensing) Vibration (*8) - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour expressions.				
Operating Humidity - 5 - 95%RH (Non Condensing) Storage Humidity - 5 - 95%RH (Non Condensing) Vibration (*8) - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour expressions.	(*7)40°C - +110°C(Case) , -40°C - +85°C(Amb	(*7)40°C - +110°C(Case), -40°C - +85°C(Ambient)		
Storage Humidity - 5 - 95%RH (Non Condensing) Vibration (*8) - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour expressions.	55°C - +125°C	55°C - +125°C		
Vibration (*8) - At No Operating, 10 - 55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour expressions.	- 5 - 95%RH (Non Condensing)	- 5 - 95%RH (Non Condensing)		
Amplitude 1.52 mm Constant (Maximum 90.8m/s²) X,Y,Z 1 hour ea	- 5 - 95%RH (Non Condensing)	- 5 - 95%RH (Non Condensing)		
			our each	
Shock (*8) - 490.3m/s ²	(*8) - 490.3m/s^2	$(*8)$ - 490.3m/s^2		
Cooling - Convection cooled / Forced air cooled	- Convection cooled / Forced air cooled	- Convection cooled / Forced air cooled	Convection cooled / Forced air cooled	
ISOLATION				
Withstand Voltage (*9) - Input-Case: 1.0kVDC for 1min. (10mA), Input-Output: 1.5kVDC for 1min. (10mA) Output-Case: 1.0kVDC for 1min. (10mA)			1min. (10mA)	
	*	*	More than $100M\Omega$ at 25°C and 70%RH, Output - Case 500VDC	
STANDARD AND COMPLIANCE	, A			
Safety - Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1,CSA60		- Approved by UL 62368-1, CSA62368-1, EN62368-1, UL 60950-1	SA60950-1	
MECHANICAL	1 14pproved by 6252500 1, 65102500 1, 2102500-1, 6250	1 14pproved by 62622000 1, 6511022000 1, 611022000 1, 611022000 1,	.2.100/30 1	
Weight (Typ.) g 20	σ 20	σ 20	20	
Size (W x H x D) mm 25.4 x 9.9 x 25.4 (Refer to Outline Drawing)				

C283-01-01C

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)

BASIC CONNECTION



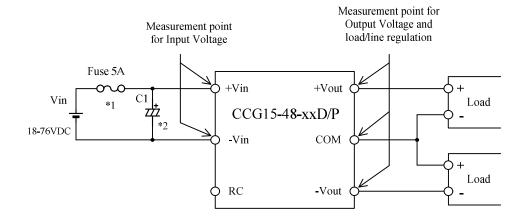
*Read instruction manual carefully, before using the power supply unit.

==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.

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.