

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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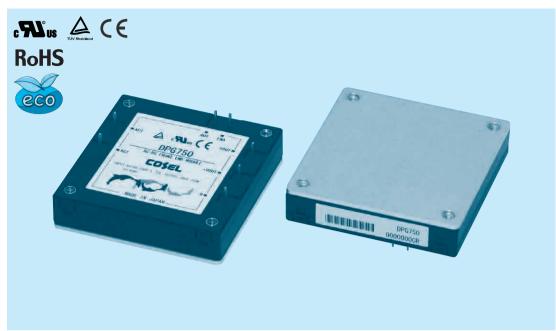






DPG

DPG 750



①Series name ②Output power 500:500W (ACIN 200V) 750:750W (ACIN 200V)

MODEL	DPG500		DPG750	
AC INPUT[V]	AC85 - 264	AC170 - 264	AC85 - 264	AC170 - 264
MAX OUTPUT WATTAGE[W] *1	300	500	500	750
DC OUTPUT VOLTAGE[V] *2	360			

DPG750

SPECIFICATIONS

MODEL

INRUSH CURRENT[A]			2. 0.00		2. 6. 60			
CURRENT[A] 3.47typ (ACIN 100V) 2.86typ (ACIN 200V) 5.72typ (ACIN 100V) 4.24typ (ACIN 200V)	INPUT	VOLTAGE[V]	AC85 - 264 1 φ	AC170 - 264 1 φ	AC85 - 264 1 φ	AC170 - 264 1 φ		
FREQUENCY[Hz] 50/60 (47 - 63) Hz INRUSH CURRENT[A] Limited by external resistance EFFICIENCY[%] 92typ (ACIN 100V) 95typ (ACIN 200V) 93typ (ACIN 100V) 96typ (ACIN 200V) 0.96typ (ACIN 100V) 0.93typ (ACIN 200V) 0.96typ (POWER FACTOR CORRECTION RANGE[V]	AC85 - 264 1 φ					
INRUSH CURRENT[A]		CURRENT[A]	3.47typ (ACIN 100V)	2.86typ (ACIN 200V)	5.72typ (ACIN 100V)	4.24typ (ACIN 200V)		
INRUSH CURRENT[A] Limited by external resistance		FREQUENCY[Hz]	50/60 (47 - 63) Hz					
POWER FACTOR 0.96typ (ACIN 100V) 0.93typ (ACIN 200V) 0.96typ (ACIN 100V) 0.93typ (ACIN 200V)		INRUSH CURRENT[A]	Limited by external resistance					
LEAKAGE CURRENT[mA] 0.75 max (60Hz, According to IEC60950 and DEN-AN)		EFFICIENCY[%]	92typ (ACIN 100V)	95typ (ACIN 200V)	93typ (ACIN 100V)	96typ (ACIN 200V)		
WATTAGE[W] *1 300 500 500 750 OUTPUT VOLTAGE ACCURACY *3 ±2% PROTECTION CIRCUIT AND OTHERS OTHERS OVERVOLTAGE PROTECTION[V] DC400 - 450V The power factor corrector function stops CIRCUIT AND OTHERS ENA *4 Enable signal, Open-drain output, Maximum sink current 10mA, Maximum allowance voltage 35V INPUT-OUTPUT Non isolated INPUT, OUTPUT-FG AC2,800V 1minute Cutoff current = 10mA, DC500V, 50MΩ min (20±15°C) STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE) 3,000m (10,000feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max VIBRATION 10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis SAFETY AGENCY APPROVALS UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 HARMONIC ATTENUATOR Complies with IEC61000-3-2 *6 CASE SIZE/WEIGHT 58.4 ×12.7 ×61mm [2.3 ×0.5 ×2.4 inches] (W×H×D) / 100g max		POWER FACTOR	0.96typ (ACIN 100V)	0.93typ (ACIN 200V)	0.96typ (ACIN 100V)	0.93typ (ACIN 200V)		
OUTPUT VOLTAGE[V] \$2 360 PROTECTION CIRCUIT AND OTHERS OVERVOLTAGE PROTECTION[V] DC400 - 450V The power factor corrector function stops EINA \$4 Enable signal, Open-drain output, Maximum sink current 10mA, Maximum allowance voltage 35V OTHERS OTHERS \$5 Parallel operation impossible, Thermal protection INPUT-OUTPUT Non isolated INPUT, OUTPUT-FG AC2,800V 1 minute Cutoff current = 10mA, DC500V, 50MΩ min (20±15°C) OPERATING TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max VIBRATION 10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis MPACT 196.1m/s² (20G), 11ms, once each along X, Y and Z axis SAFETY AGENCY APPROVALS UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 CASE SIZE/WEIGHT 58.4×12.7×61mm [2.3×0.5×2.4 inches] (W×H×D) / 100g max		LEAKAGE CURRENT[mA]	0.75 max (60Hz, According to IEC60950 and DEN-AN)					
VOLTAGE ACCURACY *3 ±2% PROTECTION CIRCUIT AND CIRCUIT AND OTHERS DOUBY OUTPUT-OUTPUT ENA PROTECTION (NOT STORAGE TEMP, HUMID.AND ALTITUDE STORAGE TEMP, HUMID.AND ALTITUDE 40 to +100°C (20 - 95%RH (Non condensing)), 9,000m (30,000feet) max VIBRATION PRATION SORAGE TEMP, HUMID.AND ALTITUDE 40 to +100°C (30), 11ms, once each along X, Y and Z axis MPACT 196.1m/s² (20G), 11ms, once each along X, Y and Z axis AGENCY APPROVALS UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 OTHERS CASE SIZE/WEIGHT OVERVOLTAGE PROTECTION(IV) DC400 - 450V The power factor corrector function stops Enable signal, Open-drain output, Maximum sink current 10mA, Maximum allowance voltage 35V Thermal protection Non isolated	OUTPUT	WATTAGE[W] *1	300	500	500	750		
PROTECTION CIRCUIT AND CIRCUIT AND OTHERS OVERVOLTAGE PROTECTION[V] DC400 - 450V The power factor corrector function stops ENA ## Enable signal, Open-drain output, Maximum sink current 10mA, Maximum allowance voltage 35V OTHERS ** Parallel operation impossible , Thermal protection ISOLATION INPUT-OUTPUT Non isolated INPUT, OUTPUT-FG AC2,800V 1minute Cutoff current = 10mA, DC500V, 50MΩ min (20±15°C) PENVIRONMENT OPERATING TEMP,HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE) 3,000m (10,000feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C , 20 - 95%RH (Non condensing), 9,000m (30,000feet) max VIBRATION 10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis IMPACT 196.1m/s² (20G), 11ms, once each along X, Y and Z axis AGENCY APPROVALS UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 ARENCY APPROVALS UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 ARENCY APPROVALS SA.4×12.7×61mm [2.3×0.5×2.4 inches] (W×H×D) / 100g max		VOLTAGE[V] *2	360					
CIRCUIT AND OTHERS DENA **4 Enable signal, Open-drain output, Maximum sink current 10mA, Maximum allowance voltage 35V OTHERS OTHERS **5 Parallel operation impossible , Thermal protection INPUT-OUTPUT INPUT, OUTPUT-FG OPERATING TEMP,HUMID.AND ALTITUDE **5 Parallel operation impossible , Thermal protection Non isolated AC2,800V 1minute Cutoff current = 10mA, DC500V, 50MΩ min (20±15°C) OPERATING TEMP,HUMID.AND ALTITUDE **5 STORAGE TEMP,HUMID.AND ALTITUDE **5 STORAGE TEMP,HUMID.AND ALTITUDE **5 VIBRATION INPUT. OUTPUT-FG AC2,800V 1 minute Cutoff current = 10mA, DC500V, 50MΩ min (20±15°C) **40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE) 3,000m (10,000feet) max **5 VIBRATION INPUT. OUTPUT-FG **5 VIBRATING CURVE) 3,000m (10,000feet) max **5 VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATING CURVE) 3,000m (10,000feet) max VIBRATION INPUT. OUTPUT-FG **6 VIBRATION INPUT. OUTPUT-F		VOLTAGE ACCURACY *3	±2%					
OTHERS OTHERS *5 Parallel operation impossible , Thermal protection ISOLATION INPUT-OUTPUT Non isolated ENVIRONMENT INPUT, OUTPUT-FG AC2,800V 1 minute Cutoff current = 10mA, DC500V, 50MΩ min (20±15℃) AC2,800V 1 minute Cutoff current = 10mA, DC500V, 50MΩ min (20±15℃) ENVIRONMENT OPERATING TEMP,HUMID.AND ALTITUDE -40 to +100℃ (On aluminum base plate), 20 - 95%RH (Non condensing), 9,000m (30,000feet) max VIBRATION 10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis IMPACT 196.1m/s² (20G), 11ms, once each along X, Y and Z axis MAGENCY APPROVALS UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 HARMONIC ATTENUATOR Complies with IEC61000-3-2 *6 OTHERS CASE SIZE/WEIGHT 58.4×12.7×61mm [2.3×0.5×2.4 inches] (W×H×D) / 100g max	PROTECTION CIRCUIT AND OTHERS	OVERVOLTAGE PROTECTION[V]	DC400 - 450V The power factor corrector function stops					
INPUT-OUTPUT Non isolated		ENA *4	Enable signal, Open-drain output, Maximum sink current 10mA, Maximum allowance voltage 35V					
INPUT, OUTPUT-FG AC2,800V 1minute Cutoff current = 10mA, DC500V, 50MΩ min (20±15℃)		OTHERS *5	Parallel operation impossible , Thermal protection					
INPUT, OUTPUT-FG	ISOLATION	INPUT-OUTPUT	Non isolated					
STORAGE TEMP, HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max VIBRATION 10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis IMPACT 196.1m/s² (20G), 11ms, once each along X, Y and Z axis SAFETY AGENCY APPROVALS UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 HARMONIC ATTENUATOR Complies with IEC61000-3-2 *6 CASE SIZE/WEIGHT 58.4×12.7×61mm [2.3×0.5×2.4 inches] (W×H×D) / 100g max		INPUT, OUTPUT-FG	AC2,800V 1minute Cutoff current = 10mA, DC500V, 50M Ω min (20±15 $^{\circ}$ C)					
VIBRATION 10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis IMPACT 196.1m/s² (20G), 11ms, once each along X, Y and Z axis SAFETY AGENCY APPROVALS UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 HARMONIC ATTENUATOR Complies with IEC61000-3-2 *6 CASE SIZE/WEIGHT 58.4×12.7×61mm [2.3×0.5×2.4 inches] (W×H×D) / 100g max	ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	$-40 \text{ to } +100 ^{\circ}\text{C} \text{ (On aluminum base plate), } 20 -95 ^{\circ}\text{RH (Non condensing)} \text{ (Refer to DERATING CURVE) } 3,000 \text{m} \text{ (} 10,000 \text{feet) max} \\$					
VIBRATION 10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis IMPACT 196.1m/s² (20G), 11ms, once each along X, Y and Z axis SAFETY AGENCY APPROVALS UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 OTHERS CASE SIZE/WEIGHT 58.4×12.7×61mm [2.3×0.5×2.4 inches] (W×H×D) / 100g max		STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max					
AGENCY APPROVALS UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 HARMONIC ATTENUATOR Complies with IEC61000-3-2 *6 CASE SIZE/WEIGHT 58.4×12.7×61mm [2.3×0.5×2.4 inches] (W×H×D) / 100g max		VIBRATION	10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis					
SAFETY HARMONIC ATTENUATOR Complies with IEC61000-3-2 *6 CASE SIZE/WEIGHT 58.4×12.7×61mm [2.3×0.5×2.4 inches] (W×H×D) / 100g max		IMPACT	196.1m/s² (20G), 11ms, once each along X, Y and Z axis					
HARMONIC ATTENUATOR Complies with IEC61000-3-2 *6	SAFETY	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1					
OTHERS		HARMONIC ATTENUATOR	Complies with IEC61000-3-2 *6					
COOLING METHOD Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)	OTHERS	CASE SIZE/WEIGHT	58.4×12.7×61mm [2.3×0.5×2.4 inches] (W×H×D) / 100g max					
		COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)					

- Refer to Input voltage derating.

 When the input voltage is more than 240V, the output voltage becomes the value proportional to the input voltage.

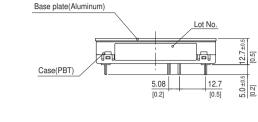
DPG500

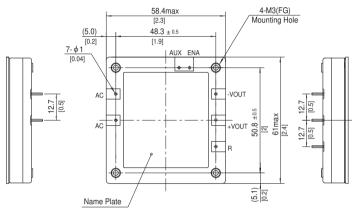
- The value included the output setting and the line regulation, the load regulation and the temperature regulation.
- However, the input voltage is less than 240V. Refer to the instruction Manual.
- The thermal protection stops the power factor corrector function and the ENA signal.
- Please contact us about class C.

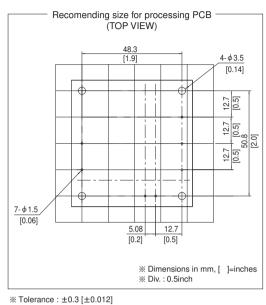
DPG



External view



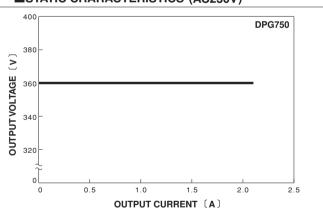




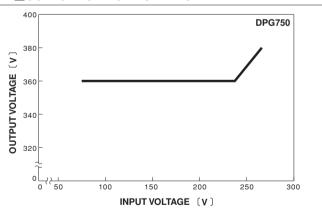
- % Weight : 100g max
- ** Mounting hole screwing torque : 0.49N · m (5.0kgf · cm) max

Performance data

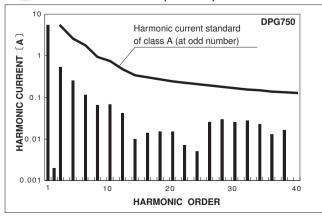
■STATIC CHARACTERISTICS (AC230V)



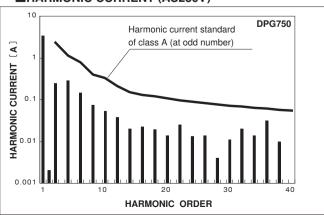
OUTPUT VOLTAGE FOR INPUT



■HARMONIC CURRENT (AC100V)



■HARMONIC CURRENT (AC230V)



DPG