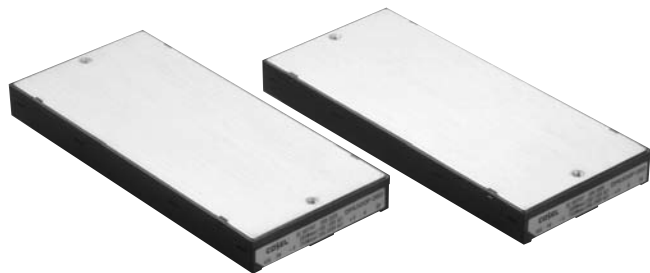


500-1000 Watts

DPA/DPF Series



- 85-264 VAC Input
- Harmonic Correction to EN61000-3-2
- Efficiency up to 95%
- Fixed Switching Frequency
- Parallel Operation
- Compatible with DAS Series (DPA)
- International Approvals

Specification

Input

Input Voltage	• 85-264 VAC
Input Frequency	• 47 - 63 Hz
Input Current	• 5.6 A/11.5 A
Inrush Current	• DPA : 15 A typical at 100 VAC 30 A typical at 200 VAC DPF : Limited by external resistor (contact sales for details)
Power Factor	• 0.95 typical at 200 VAC
Earth Leakage Current	• DPA: <0.3 mA max at 240 VAC 60Hz DPF: <0.7 mA max at 240 VAC 60Hz

Output

Output Power	• 500/1000 W for DPA500F/DPF1000 with 85-170 VAC input voltage, 750/1500 W for DPA500F/DPF1000 with 170-264 VAC input voltage
Output Voltage	• DPA: 300-360 VDC (automatically changes according to input voltage) DPF: 360 VDC
Minimum Load	• No minimum load required
Overvoltage Protection	• DPA: 390-440 VDC, DPF: 400-450 VDC
Overtemperature Protection	• >85 °C - Baseplate temperature.
Short Circuit Protection	• Not provided
Current Share	• Active current share, derate max current by 10% of the total output power.
Auxiliary Output	• DPF: 6.5 - 8.5 V at 10 mA DPA: 10 - 20 V at 10 mA

General

Efficiency	• 90% typical at 100 VAC, 95% typical at 200 VAC
Isolation	• Input to Output not isolated 3000 VAC Input to Ground 3000 VAC Output to Ground
Switching Frequency	• DPA: 170 kHz , DPF: 130 kHz
Power Density	• 85 W/In ³
MTBF	• 345 kHrs per EIAJ RCR 9102

Environmental

Operating Temperature	• -20 °C to +85 °C (aluminium baseplate)
Cooling	• Conduction-cooled
Operating Humidity	• 20-95% RH, non-condensing
Storage Temperature	• -40 °C to +85 °C
Operating Altitude	• 3000 m
Shock	• 20 g 11 ms once on each axis
Vibration	• 10-55 Hz, 5 g 3 minute period, 60 minutes along each axis

EMC & Safety

Emissions	• EN55022 level B conducted & radiated. External components required, contact sales for details.
Harmonic Currents	• EN61000-3-2
ESD Immunity	• EN61000-4-2, level 2 Perf Criteria A
Radiated Immunity	• EN61000-4-3, level 3 Perf Criteria A
EFT/Burst	• EN61000-4-4, level 3 Perf Criteria A
Surge	• EN61000-4-5, level 3, 4 Perf Criteria A
Conducted Immunity	• EN61000-4-6, level 3, Perf Criteria A
Dips & Interruptions	• EN61000-4-11, 90% 10 ms, 60% 100 ms, 95% 5000 ms, Perf Criteria A, B, B
Safety Approvals	• UL60950-1,C-UL, EN60950-1, EN50178

Models & Ratings

DPA/DPF **XP**

Input Voltage	Output Voltage	Output Power		Efficiency (typ) ⁽¹⁾	Model Number
		85-264 V	170-264 V		
85-264 V	300-360 V	500 W	750 W	95%	DPA500F-360
	360 V	1000 W	1500 W	95%	DPF1000

Notes

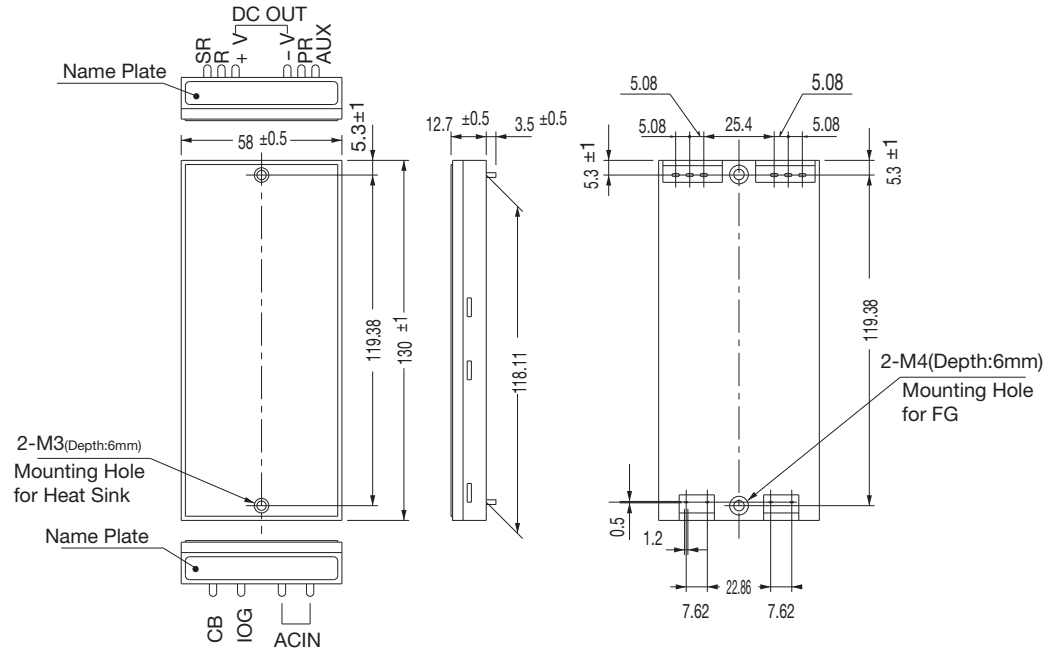
1. At rated input and rated load

Mechanical Details

DPA500F-360

Weight: <150 g

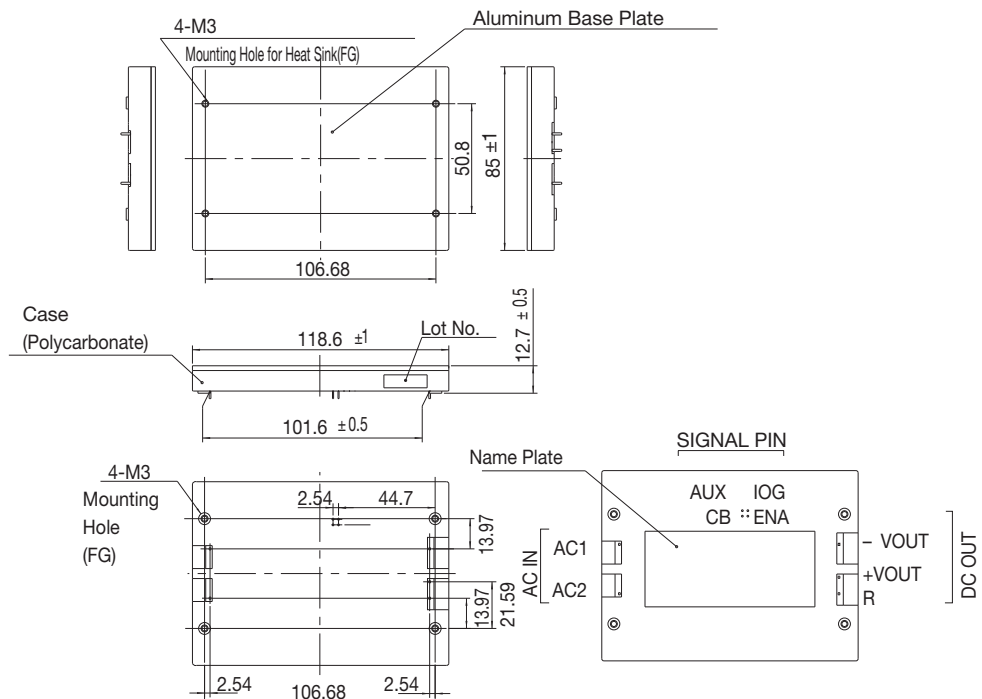
Pin	Function
ACIN	AC Input
ACIN	AC Input
IOG	Inverter Operation Monitor
CB	Current Balance
-V	-DC Output
+V	+DC Output
AUX	Auxiliary Power Supply
PR	Power Ready Signal
R	External Resistor for Inrush Current Limiting
SR	Alternative Connection for Inrush Current Limiting



DPF1000

Weight: <200g

Pin	Function
AC1	AC Input
AC2	AC Input
IOG	Inverter Operation Monitor
CB	Current Balance
-V	-DC Output
+V	+DC Output
AUX	Auxiliary Power Supply
ENA	Enable Signal
R	External Resistor for Inrush Current Limiting



Notes

1. All measurements are in mm. Tolerance: ±0.3 mm.

2. Mounting torque:

For heat sink: 0.4 Nm

For FG: 0.4 Nm (DPA 1.2 Nm)