

KEY FEATURES

- DIN Rail Switching Power Supply
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Noise
- High Efficiency
- CE, cUL, TUV Approvals
- 2-Year Product Warranty



ELECTRICAL SPECIFICATIONS

Model No.	ANC-5S-DN	ANC-12S-	ANC-15S	ANC-24S
Max Output Wattage (W)	15W	15W	15W	15W
Input	Voltage			
	90-264 VAC or 120-370 VDC			
	Frequency (Hz)			
	47-440 Hz			
	Current (Full load)			
280 mA max. (115 VAC) / 170 mA max. (230 VAC)				
Inrush Current (<2ms)				
10 A max. (115 VAC) /20 A max. (230 VAC)				
Leakage Current				
0.75 mA max.				
Output	Voltage (V.DC.)			
	5V	12V	15V	24V
	Voltage Accuracy			
	±2%			
	Current (mA) max			
	3000	1250	1000	625
	Line Regulation (LL-HL) (typ.)			
	±0.5%.			
	Load Regulation (5-100%) (typ.)			
	±0.5%.			
	Minimum Load			
0%				
Maximum Capacitive Load				
470-23,000µF depending on model				
Ripple				
<0.2% Vout +40mV max (Vp-p)				
Noise				
<0.5% Vout +50mV max (Vp-p)				
Efficiency				
70%	73%	73%	77%	
Hold-up Time				
15 ms min.				
Switching Frequency				
100 kHz				
Protection	Over Power Protection			
	Hiccup technique, auto-recovery			
	Over Voltage Protection			
Zener diode clamp				
Short Circuit Protection				
Hiccup mode, indefinite (automatic recovery)				
Isolation	Input-Output (V.AC)			
3000V				
Environment	Input-FG (V.AC)			
	1500V			
	Output-FG (V.AC)			
	500V			
	Operating Temperature			
	-25°C...+70°C (with derating)			
	Storage Temperature			
-40°C...+85°C				
Temperature Coefficient				
±0.02%/°C				
Humidity				
95% RH				
MTBF				
>200,000 h @ 25°C (MIL-HDBK-217F)				
Physical	Dimension (L x W x H)			
	3.58 x 3.39 x 1.85 Inches (91.0 x 86.0 x 47.0 mm) Tolerance ± 0.5 mm			
	Case Material			
	Plastic resin with Fiberglass (flammability to UL 94V-2)			
Weight				
200 g				
Cooling Method				
Free air convection				
Safety	Agency Approvals			
UL/cUL, CE, TUV				
EMC	EMI (Conducted & Radiated Emission)			
	EN 55022 class B			
EMS (Noise Immunity)				
EN 55024				

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

ELECTRICAL SPECIFICATIONS

Model No.	ANC-5D-DN	ANC-12D-DN	ANC-15D-DN
Max Output Wattage (W)	15W	15W	15W
Input	Voltage		
	90-264 VAC or 120-370 VDC		
	Frequency (Hz)		
	47-440 Hz		
	Current (Full load)		
280 mA max. (115 VAC) / 170 mA max. (230 VAC)			
Inrush Current (<2ms)			
10 A max. (115 VAC) / 20 A max. (230 VAC)			
Leakage Current			
0.75 mA max.			
Output	Voltage (V.DC.)		± 15V
	Voltage Accuracy		± 2%
	Current (mA) max		± 1500
	Line Regulation (LL-HL) (typ.)		± 0.5%
	Load Regulation (5-100%) (typ.)		± 0.5%
	Minimum Load		0%
	Maximum Capacitive Load		470-23,000µF depending on model
	Ripple		<0.2% Vout +40mV max (Vp-p)
	Noise		<0.5% Vout +50mV max (Vp-p)
	Efficiency		75%
	Hold-up Time		15 ms min.
	Switching Frequency		100 kHz
Protection	Over Power Protection		
	Hiccup technique, auto-recovery		
	Over Voltage Protection		
Zener diode clamp			
Short Circuit Protection			
Hiccup mode, indefinite (automatic recovery)			
Isolation	Input-Output (V.AC)		
3000V			
Environment	Input-FG (V.AC)		
	1500V		
	Output-FG (V.AC)		
	500V		
	Operating Temperature		
	-25°C...+70°C (with derating)		
	Storage Temperature		
-40°C...+85°C			
Temperature Coefficient			
±0.02%/°C			
Humidity			
95% RH			
MTBF			
>200,000 h @ 25°C (MIL-HDBK-217F)			
Physical	Dimension (L x W x H)		
	2.91 x 2.13 x 0.87 Inches (74.0 x 54.0 x 22.0 mm) Tolerance ± 0.5 mm		
	Case Material		
	Plastic resin with Fiberglass (flammability to UL 94V-2)		
Weight			
200 g			
Cooling Method			
Free air convection			
Safety	Agency Approvals		
UL/cUL, CE, TUV			
EMC	EMI (Conducted & Radiated Emission)		
	EN 55022 class B		
EMS (Noise Immunity)			
EN 55024			

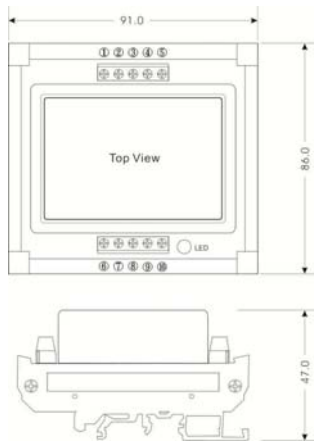
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

ELECTRICAL SPECIFICATIONS

Model No.		ANC-5S12D-DN	ANC-5S15D-DN
Max Output Wattage (W)		15W	15W
Input	Voltage	90-264 VAC or 120-370 VDC	
	Frequency (Hz)	47-440 Hz	
	Current (Full load)	280 mA max. (115 VAC) / 170 mA max. (230 VAC)	
	Inrush Current (<2ms)	10 A max. (115 VAC) / 20 A max. (230 VAC)	
	Leakage Current	0.75 mA max.	
Output	Voltage (V.DC.)	5 / ±12V	5 / ±15V
	Voltage Accuracy	±2%	
	Current (mA) max	2000 / ±200	2000 / ± 150
	Line Regulation (LL-HL) (typ.)	±0.5%.	
	Load Regulation (5-100%) (typ.)	±0.5%.	
	Minimum Load	0%	
	Maximum Capacitive Load	470-23,000µF depending on model	
	Ripple	<0.2% Vout +40mV max (Vp-p)	
	Noise	<0.5% Vout +50mV max (Vp-p)	
	Efficiency	75%	75%
	Hold-up Time	15 ms min.	
Switching Frequency	100 kHz		
Protection	Over Power Protection	Hiccup technique, auto-recovery	
	Over Voltage Protection	Zener diode clamp	
	Short Circuit Protection	Hiccup mode, indefinite (automatic recovery)	
Isolation	Input-Output (V.AC)	3000V	
Environment	Input-FG (V.AC)	1500V	
	Output-FG (V.AC)	500V	
	Operating Temperature	-25°C...+70°C (with derating)	
	Storage Temperature	-40°C...+85°C	
	Temperature Coefficient	±0.02%/°C	
	Humidity	95% RH	
	MTBF	>200,000 h @ 25°C (MIL-HDBK-217F)	
Physical	Dimension (L x W x H)	3.58 x 3.39 x 1.85 Inches (91.0 x 86.0 x 47.0 mm) Tolerance ± 0.5 mm	
	Case Material	Plastic resin with Fiberglass (flammability to UL 94V-2)	
	Weight	200 g	
	Cooling Method	Free air convection	
Safety	Agency Approvals	UL/cUL, CE, TUV	
EMC	EMI (Conducted & Radiated Emission)	EN 55022 class B	
	EMS (Noise Immunity)	EN 55024	

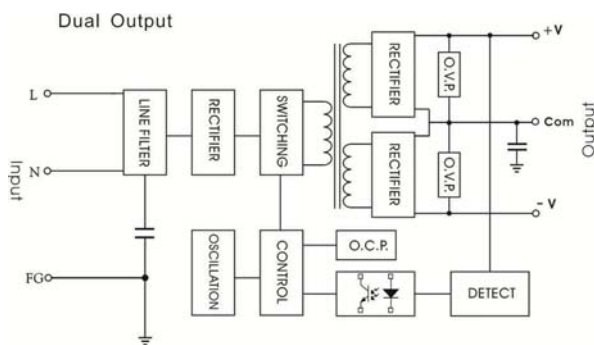
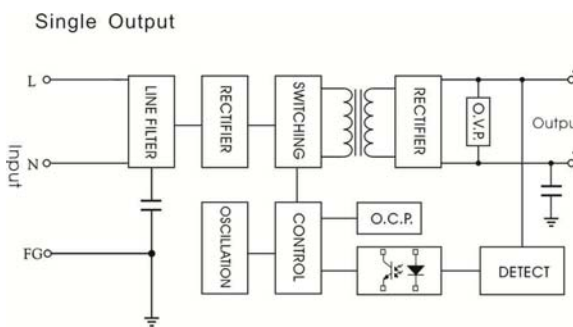
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

MECHANICAL DIMENSION (Top View)



PIN#	SINGLE	DUAL	TRIPLE
1	FG	FG	FG
2	Do not connect	Do not connect	Do not connect
3	AC IN (N)	AC IN (N)	AC IN (N)
4	Do not connect	Do not connect	Do not connect
5	AC IN (L)	AC IN (L)	AC IN (L)
6	NO PIN	NO PIN	-DC OUT
7	-DC OUT	-DC OUT	COMMON
8	NO PIN	COMMON	+DC OUT
9	+DC OUT	+DC OUT	+5V RTN
10	NO PIN	NO PIN	+5V OUT

BLOCK DIAGRAM



DERATING

