

AJC / ANC50 / ANCH50 Series 40 to 50W

() AC-DC ITE Power Module

Features

- * Power Module for PCB Mountable
- * Universal Input Range 90-264VAC / 90-305VAC (ANCH50)
- * Regulated Single, Dual, and Triple Output (AJC)
- * Low No-Load Power Consumption
- * Cooling by free air convection
- * Wide Operating Temperature: -40°C ~ +70°C
- * Low Ripple and Noise
- * Isolation Class II
- * I/O Isolation: 3000VAC / 4000VAC (ANCH50)
- * 3-Year Product Warranty



AJC
40 Watts



89.5 x 64.1 x 25.0 mm
3.52 x 2.52 x 0.98 inches

ANC50
50 Watts



74.1 x 54.1 x 21.8 mm
2.91 x 2.13 x 0.86 inches

() Household Power Module

ANCH50
50 Watts



74.2 x 47.0 x 23.1 mm
2.92 x 1.85 x 0.91 inches

General specifications (For more details and final specifications, please refer to the respective datasheets in PDF file format on www.archcorp.com.tw.)

Series	AJC	ANC50	ANCH50 NEW
AC Input Voltage Range	90-264 VAC or 100-375 VDC	90-264 VAC or 120-370 VDC	ITE: 90-305 VAC or 120-430 VDC Household: 90-264 VAC or 120-370 VDC
AC Inrush Current	30 A max. (115 VAC) / 50 A max. (230 VAC)	40 A max. (115 VAC) / 60 A max. (230 VAC)	45 A max. (115 VAC) / 90 A max. (230 VAC)
Leakage Current	0.75 mA	0.25 mA	
Output Voltage Accuracy	3.3S: ±3%; 5S~24S, Dual: ±2%; 5S12S, 5S24S, Triple: ±3% / ±5%	±2%	
Ripple & Noise (Vp-p.)	3.3S: 50mV ; others: 1% Vout	5S, 12S: 120mV ; 15S: 150mV ; 24S: 240mV ; 48S: 480mV	12S: 120mV ; 15S: 150mV ; 24S: 240mV (max.)
Over Power Protection	—	Hiccup technique, auto-recovery	
Over Voltage Protection	Zener diode clamp		
Over Current Protection	Above 105% rated output power	—	
Short Circuit Protection	Hiccup mode, indefinite (automatic recovery)		
Isolation (Input-Output)	3000 VAC	4000 VAC	
Operating Temperature	-40 °C to +70 °C		
Temperature Coefficient	±0.01%/°C	±0.02%/°C	±0.05%/°C
Cooling Method	Free air convection		
Safety	AJC / ANC50: UL / IEC / EN 60950-1 ANCH50: UL / IEC / EN 62368-1, IEC / EN 60950, IEC / EN 60335-1, IEC / EN 61558-2-16		
EMI (Conducted & Radiated Emission)	EN 55032 Class B		EN 55011 Class B
EMS (Noise Immunity)	EN 55024		EN 55035

Model No.

▶▶ AJC Single Output

Model No.	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (mA) max.	Eff (%)
AJC-3.3S	90~264	3.3	8000	74
AJC-5S	90~264	5	8000	81
AJC-9S	90~264	9	4444	82
AJC-12S	90~264	12	3333	84
AJC-15S	90~264	15	2666	83
AJC-24S	90~264	24	1667	83

▶▶ AJC Dual Output

Model No.	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (mA) max.	Eff (%)
AJC-5D	90~264	±5	±4000	81
AJC-12D	90~264	±12	±1666	83
AJC-15D	90~264	±15	±1333	83
AJC-5S12S	90~264	5 / 12	5000 / 1250	82
AJC-5S24S	90~264	5 / 24	5000 / 625	82

▶▶ AJC Triple Output

Model No.	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (mA) max.	Eff (%)
AJC-5S12D	90~264	5 / ±12	5000 / ±600	80
AJC-5S15D	90~264	5 / ±15	5000 / ±500	81

▶▶ ANC50 Single Output

Model No.	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (mA) max.	Eff (%)
ANC50-5S	90~264	5	8000	86
ANC50-12S	90~264	12	4167	90
ANC50-15S	90~264	15	3333	87
ANC50-24S	90~264	24	2083	88
ANC50-48S	90~264	48	1040	89

▶▶ ANCH50 Single Output

Model No.	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (mA) max.	Eff (%)
ANCH50-12S	90~305	12	4167	89
ANCH50-15S	90~305	15	3333	88
ANCH50-24S	90~305	24	2083	88