

Features

- Universal Input Voltage Range 100-240V AC
- Approved to UL, CB, CE, UKCA, FCC, RoHS & REACH
- IEC/EN/UL 62368-1 Safety Approved
- Level VI Efficiency
- Means of Protection: 2 X MOPP
- Single Output 12-56V DC
- Gallium Nitride Based Design



44ATM450A2-PXXX Series

450W GaN FET AC/DC Desktop Power Supply



The 44ATM450A2-PXXX Series is a performance-focused External Power Supply (PSU)>PD & GaN Power Supply. Designed for use in applications such as network equipment and signal distribution hardware. This series is supplied with a IEC C14 input connection and supports input voltages of 100~240V AC 50~60Hz.

Model Number Information

44ATM450A2-P XXX

Series Name Voltage

Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)
44ATM450A2-P120	12	33.34	400	88
44ATM450A2-P190	19	23.60	450	88
44ATM450A2-P240	24	18.75	450	88
44ATM450A2-P480	48	9.38	450	88
44ATM450A2-P560	56	8.05	450	88

Input Specifications	
Rated Voltage Range	100-240VAC
Frequency Range	50/60Hz
AC Current	5.3A-2.2A
Efficiency	DoE Level VI
Configuration	IEC60320/C14

Output Specifications	
Load Regulation	±5% (Typical)
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS

Protection	
Protection 1	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection
Protection 2	Internal Primary Current Fuse

Environmental Characteristics	
Working Temp	-20 ~ +40°C
Working Humidity	20 ~ 80%RH
Storage Humidity	-10 ~ 90% RH
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Cooling	Natural Convection Cooling

Electrical	
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Earth Leakage Current	< 5mA
Touch Current (Patient) Leakage Current	< 100µA
MTBF	300,000 Calculated Hours at 25°C by Telcordia SR-332,
EMC Standards	EN55032 / EN55011
	EN61000-3-2,3
	EN55035 / EN61000-4-2,3,4,5,6,8,11

Dimensions & Weight		
	Measurements	Weight
44ATM450A2-PXXX	254×116×47mm	1,600g

Derating Curves

