

## SWITCHED MODE POWER SUPPLY

SERIES: NAC300-01

### FEATURES :

- Latest PWM Controller based design.
- Energy efficient over entire load range
- Higher System Reliability
- High efficiency, Low cost.
- Output power up to 500 W.
- Universal wide AC Input voltage range
- Built-in EMI filter.
- Low Ripple and Noise in output.
- Screw type input and output connectors.
- Compact, light weight.
- Auto-restart delivers <3% of maximum power in short circuit and open loop fault condition.
- Over Load fuse protection, over voltage protection for AC input.



**DIGILINE SYSTEMS**  
The Complete Electronic Solution

## SPECIFICATIONS CHART

<b>MODEL</b>		NAC-300S5	NAC-300S12	NAC-300S15	NAC-300S24	NAC-300S48	
<b>OUTPUT</b>	<b>DC Output</b>	5.0V	12V	15V	24V	48V	
	<b>Rated Current</b>	50A	16.7A	19A	12.5A	4.2A	
	<b>Current Range</b>	0~50A	0~16.7A	0~19A	0~12.5A	0~4.2A	
	<b>Ripple and Noise</b>	150mV	100mV	150mV	240mV	250mV	
	<b>Voltage ADJ. Range</b>	4.75V~5.25V	11.4V~13.2V	13.5V~16.5V	20V~28V	45.6V~52.8V	
	<b>Voltage Accuracy</b>	±3.0%	±2.0%	±3.0%	±3.0%	±1.0%	
	<b>Line Regulation</b>	±1.0%	±0.5%	±1.0%	±1.0%	±0.5%	
	<b>Load Regulation</b>	±2.0%	±0.5%	±2.0%	±2.0%	±0.5%	
	<b>Set-up Time</b>		<4.0S (230Vac input, Full load);<2.0S (230Vac input, Full load)				
<b>Hold up Time</b>		>20mS(230Vac input, Full load)					
<b>Temperature Coefficient</b>		±0.03%/					
<b>Overshoot and Undershoot</b>		<5.0%					
<b>INPUT</b>	<b>Voltage Range</b>	90Vac~264Vac					
	<b>Frequency Range</b>	47Hz--63Hz					
	<b>Power Factor(Typical)</b>	PF>0.99/115VAC PF>0.98/230VAC					
	<b>Efficiency ( Typical)</b>	72%	79%	78%	82%	85%	
	<b>AC Current (max.)</b>	4.0A/110VAC 2.0A/230VAC					
	<b>Inrush Current (Typical)</b>	15A@115Vac;30A@230Vac Cold start					
	<b>Leakage Current</b>	Input—output:<0.25mA Input—PG:<3.5mA					
	<b>PROTECTION</b>	<b>Over Power</b>	105%~140% of rated output current, auto recovery				
		<b>Over Current</b>	105%~140% of rated output current, auto recovery				
<b>Over Temperature</b>		Shut down					
<b>Over Voltage</b>		105%~150% of rated output voltage, shut down					
<b>Shorted Circuit</b>		auto recovery					
<b>ENVIRONME NT</b>		<b>Operating amb. Temp. &amp; Hum.</b>	-10~60; 20%~90%RH No condensing□				
	<b>Storage Temp. &amp; Hum.</b>	-20~85; 10%~95%RH No condensing□					
<b>SAFETY &amp;EMC</b>	<b>Withstand Voltage</b>	Primary-Secondary:3.0KVac; ≤10mA .Primary-PG:1.5KVac; ≤10mA. Secondary-PG:0.5KVDC;≤10mA.					
	<b>Isolation Resistance</b>	≥100M ohms					
	<b>EMI Conduction&amp;Radiation</b>	Compliance to EN55022(CISPR22)ClassB					
	<b>Harmonic Current</b>	Compliance to EN61000-3-2,17625.1-2003					
	<b>EMS Immunity</b>	Compliance to EN61000-4-2,3,4,5,6,8,11					