

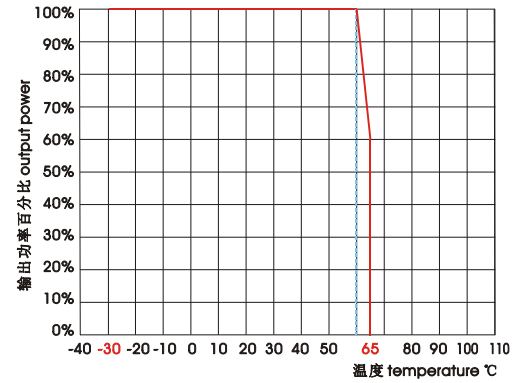
# NAK250-220S05

- 超薄 ( 31mm厚 )
- 转换效率 : 81%
- 低温启动 ( - 30°C )
- 高可靠性

## Typical performance

- ◆ ultra-thin ( 31mm )
- ◆ Efficiency ( 81% )
- ◆ Low temperature start ( -30°C )
- ◆ Input overvoltage Protection
- ◆ Input undervoltage Protection
- ◆ Overload Protection
- ◆ High reliable

## Temperature graph



**Technology parameter** (Test condition : Unless otherwise indicated, specifications apply over all operating input voltage, resistive load, and temperature conditions)

Input	
Voltage range	180~264VAC
Frequency range	47~63Hz
Efficiency(typ.)	81%@220Vac 70%Full Load; 78%@220Vac 100%Full Load
Ac current(typ.)	2.5A/230VAC;5A/115VAC
Inrush current(typ.)	45A/230VAC
Leakage current	<3.5mA/240VAC

## Output

DC voltage	5V
Rated current	50A
Current range	0~50A
Pated power	250W
RIPPLE & NOISE(max.)	120mVp-p
Voltage adj. Range	4.7-5.3V
Voltage tolerance	±2%
Line regulation	±0.5%
Load regulation	±1%
Dynamic response	小于300mV@50% ~75%~50% lout max, 0.1A/us

Setup time	小于1000ms/230VAC@full load
Rise time	1~12ms/230VAC@full load
Hold up time(typ.)	12ms/230VAC@full load

## General

Protection	Overload	105~130% rated output power
		Protection type:Constant current limiting,recovers automatically after fault condition is removed
	Short circuit	Protection type: Hiccup Model
	Input overvoltage	Turn-On Voltage Threshold: 254-260Vac
		Turn-Off Voltage Threshold: 264-270Vac
		Lockout Voltage Hysteresis: 8
	Input undervoltage	Turn-On Voltage Threshold: 185-192Vac
		Turn-Off Voltage Threshold: 175-180Vac
		Lockout Voltage Hysteresis: 11
Signal	DC OK signal	Green LED light when PSU turn on
Environment	Working humidity	20~90%RH non-condensing
	Storage temp	-40~85°C
	Storage humidity	10~95%RH
	Temp coefficient	±0.03%/°C(0~50°C)
	Vibration	10~500Hz, 5G 10min/1cycle, 60min.each along X, Y, Z axes
Hi-pot	Withstand voltage	Input-FG: 1.5KVAC Input-Output: 3.0KVAC Output-FG: 0.5KVDC
	Isolation resistance	Input-FG; Input-Output; Output-FG: 10M Ohms/500VDC/25°C/70%RH
Others	Dimension	200x110x31mm(LxWxH)
	Weight	0.6Kg/pcs

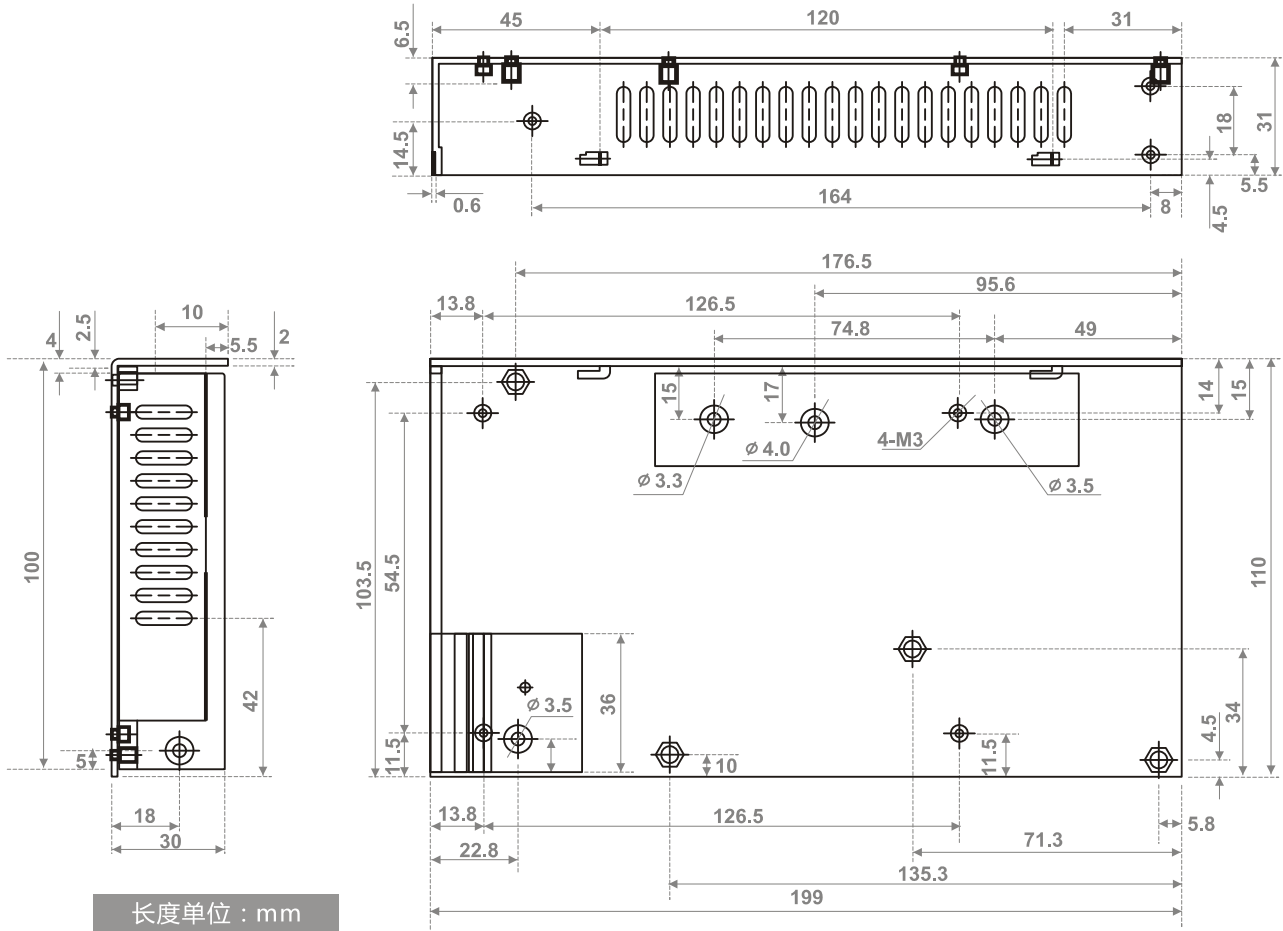
## Product Nomination Method

Example	N A K 250 - 220 S 05		
	① ② ③ ④	⑤ ⑥ ⑦	
①	N Narrow range input: AC180-264V	⑤	Input nominal voltage
②	Power convert mode A (AC-DC)	⑥	S single output
③	Switch Power	⑦	Output voltage
④	Output Watt		

## Typical product tabulates

TYPE	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
NAK250-220S05	180-264Vac	5	50000				

## Mechanical Data



## Mechanical Data

Package Code	L x W x H (unit): mm	Package No
---	200.00x110.00x31.00	---

\*Note: The power modules such as the definition of the pin does not match with the data sheet, please refer to the actual item.