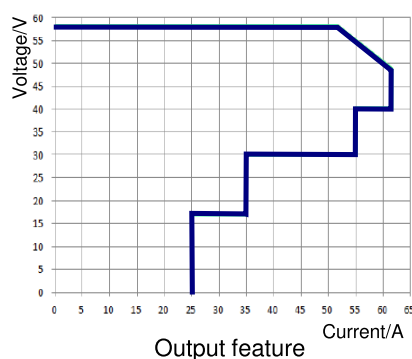


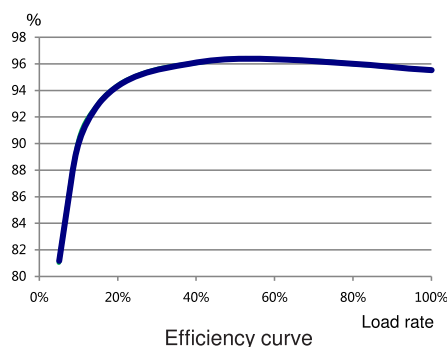
NiC3000P-48

Feature

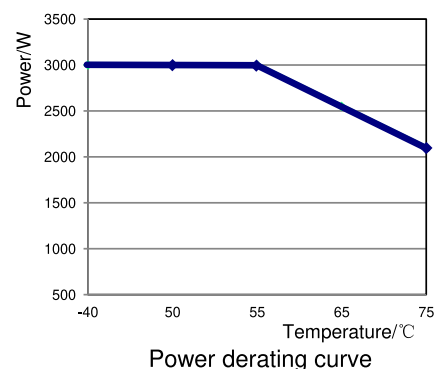
- High efficiency: >96%
- Input voltage range: 85~300VAC
- Operating temperature range: -40°C~75°C
- Total harmonic distortion(THD): ≤5%
- Hot-plug
- Digital control
- Intelligent electric meter
- Communication over CAN
- Adjustment of voltage and current



Output feature

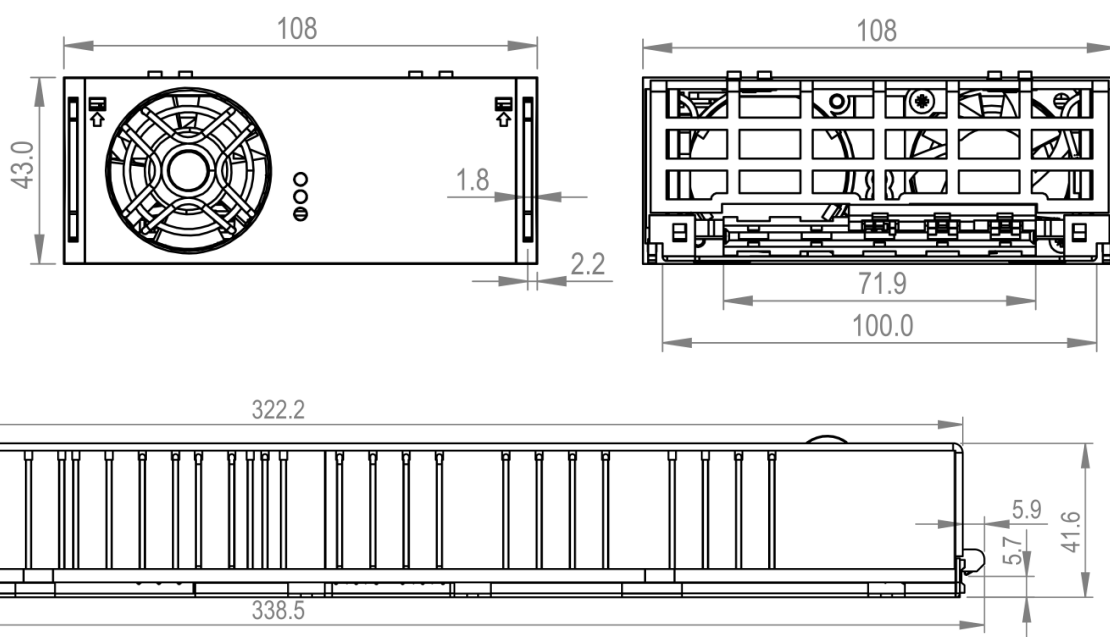


Efficiency curve



Power derating curve

Outline Drawing and Explanation



Specifications

Product		NIC3000P-48
Basic specifications	Dimension	43(H) × 108(W) × 338.5(D)mm
	Weight	≤2kg
	Cooling	Forced air cooling (Built-in fan)
Input feature	Voltage (nominal)	176 - 277 VAC
	Voltage (range)	85 - 300 VAC
	Frequency	45~66Hz, rated: 50Hz/60Hz
	Rated input current	< 19A
	Power factor	0.99 at 230VAC, 50~100% Load
	THD	<5% at 230VAC, 50~100% Load
Output feature	Default Voltage (Range)	53.5 VDC (42 – 58 VDC)
	Power (maximum)	3000W (1200W @85AC)
	Current	62.5 A@48 VDC
	Ripple and Noise	200 mVp-p (Bandwidth < 20MHz)
	Static Voltage regulation	±0.5% for 10 - 100% load
	Current Share	+5% output >10% full load
	Efficiency	96 %@ nominal input
Protection	Input overvoltage protection	>300VAC
	Input undervoltage protection	<80VAC
	Output overvoltage protection	58.5~60.5VDC(can be set bySCU)
	Output short circuit protection	A long term short circuit is allowed.
	Over-temperature protection	Protection point: ≥75℃
Reliability	MTBF	>300 000h (@Tambient : 25 °C)
Audible noises	Specification	≤55dB(40℃, full load)
Environmental specifications	Operating temperature	-40℃~+75℃(non-derating under 55℃)
	Storage temperature	-40℃~+75℃
	Relative humidity	5%~95%(non-condensing)
	Altitude range	≤4000m(If the altitude is within the range of 3000m to 4000m, the maximum operating temperature decreases by 1℃ as the altitude increases by 200m.)
Safety/EMC/ Lightning protection	Safety certification	UL60950-1·IEC60950-1·EN60950-1
	EMC	EN55022 Class B·EN55024·EN61000-3-2·EN61000-3-3
	Lightening protection	YD 5098-2005 5KA



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