



# VNMI300-S24

## POWER SUPPLY IP67

Universal Input Range 100-250Vac	High Power Density up to 21.64W/Inch3	Continuous Short Circuit Protection	Meets MIL-STD-461F(CE102, CS101, CS114, CS115, CS116)
High Efficiency up to 94%	Over Temperature Protection	No Load Power Consumption < 3W	Shock, Vibration and Enviroment meets MIL-STD-810G

### SPECIFICATIONS

All specifications are measured @  $T_A=T_{Base}=25^{\circ}\text{C}$ , rated input & rated load unless otherwise stated

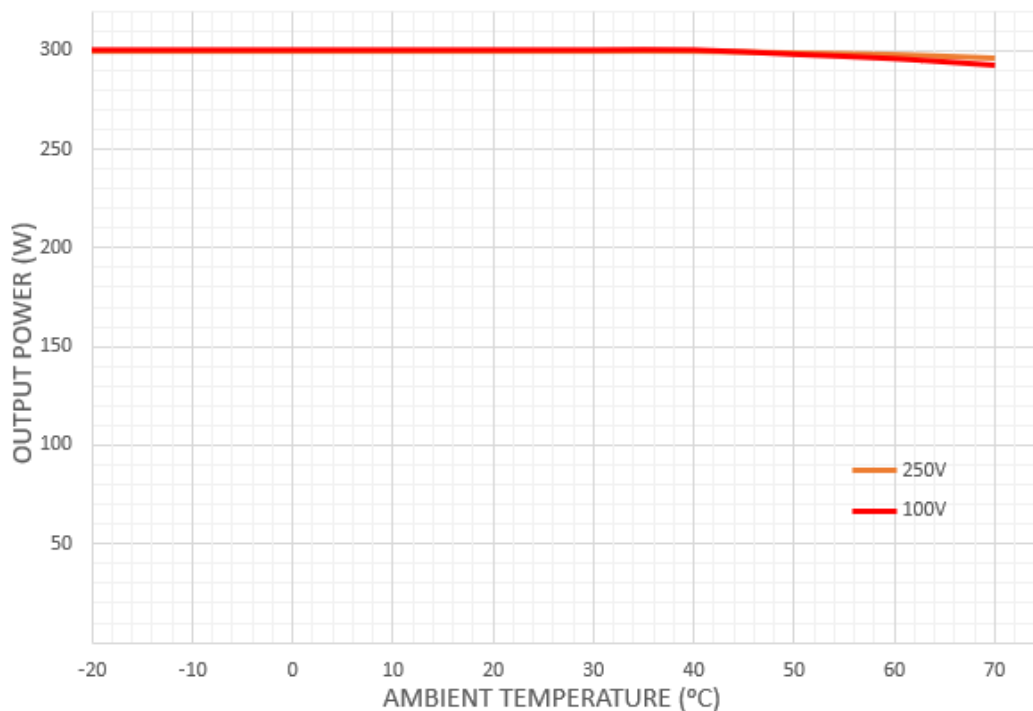
SPECIFICATIONS		
Parameter	Details	Units
AC Input Voltage Range	100-250	Vac
AC Input Frequency	47-63	Hz
Input Current (max)	3A max @ 115Vac 1.5A max @240Vac	A
No Load Power Consumption	3	W
Inrush Current	Cold start @25°C 30A max. @240Vac	A
Leakage Current	3.5	mA max
Output Voltage	24	Vdc
Output Voltage Accuracy	±5	%
Output Current (max)	12.5	A (Natural convection)
Output Ripple & Noise	1	%
Efficiency (max)	94	%
Short Circuit Protection	Hiccup mode (Auto Recovery)	

Over Voltage Protection	Latch mode	
Isolation	Input to Output = 4000Vac	(1minute)
Hold-up Time	16ms typ@115Vac	
Temperature Coefficient	±0.05	%
Over Load Protection	Yes	
Operating Temperature	-20 to +70	°C
Storage Temperature	-40 to +85	°C
Over Temperature Protection	Auto Recovery	
Cooling	Natural Convection-cooled	
Humidity	98%RH max. non-condensing	
Switching Frequency	65kHz ±5% typ. @ Full load	
Waterproof	IP67 (After assembling the connector with power cable and output cable)	
Weight	2.5kg ± 5% (cables inclusive)	

## CHARACTERISTIC CURVE

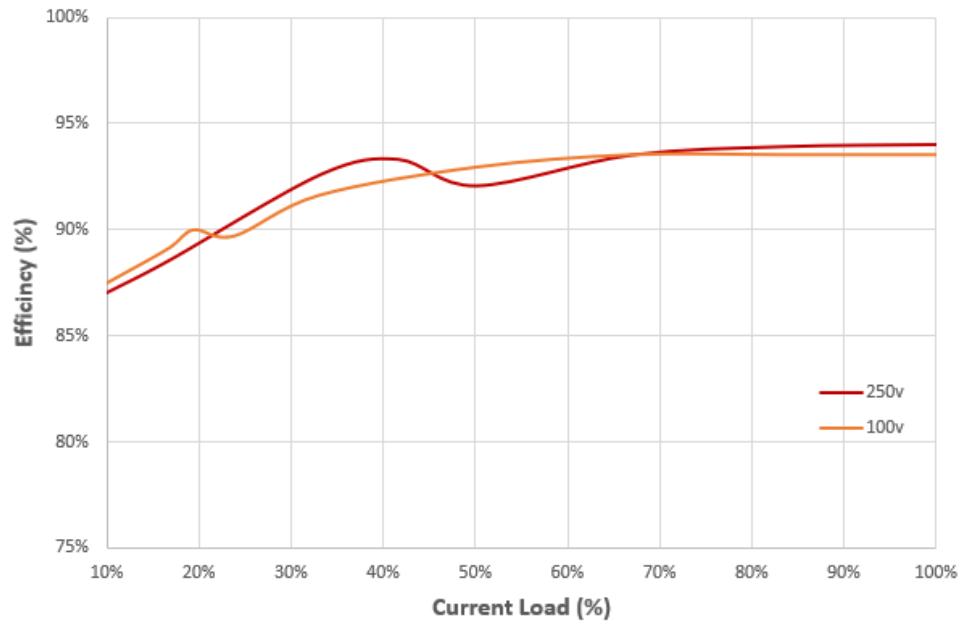
### 1. Rated output power depends on temperature (Natural Convection)

Output Power vs Ambient Temperature



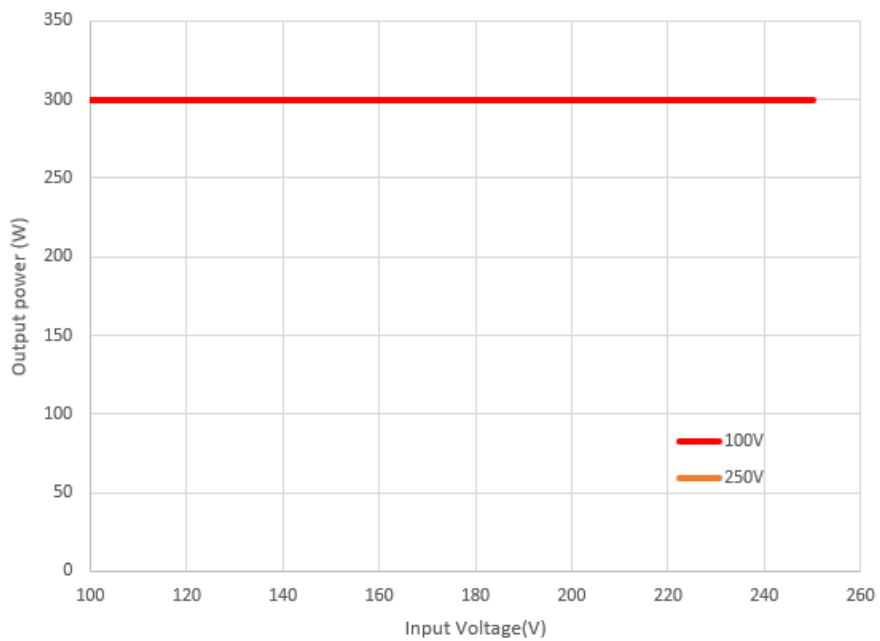
## 2. Efficiency rating depends on load consumed

Eff Vs Io

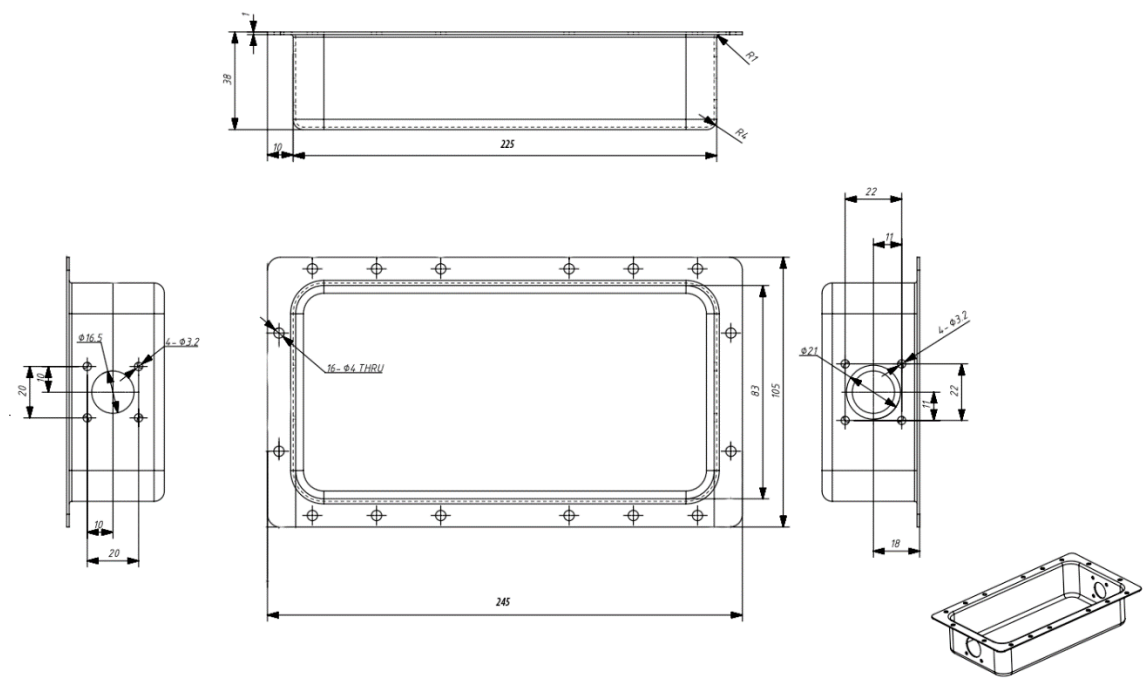


## 3. Power Derating Curve

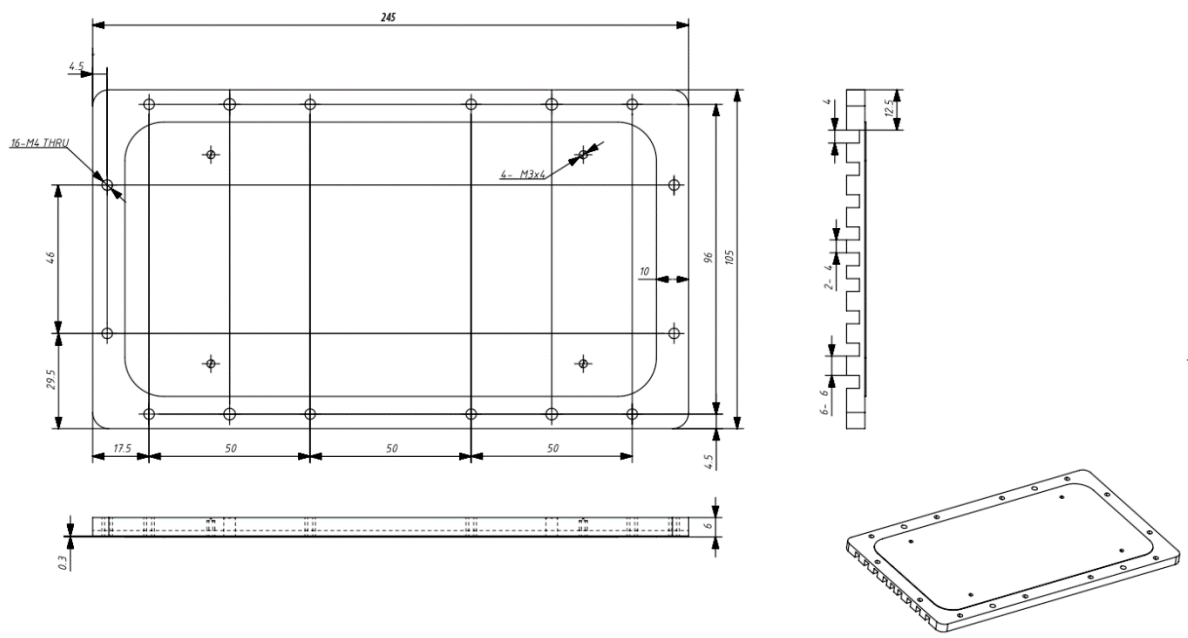
Output power & Input Voltage



# Mechanical Specification



## Lid dimensions – metal



## Aluminium sole dimensions - Al-5052

All Dimensions In mm  
Tolerance millimeters:  $\pm 2$ mm