



## ■ Features :

- Universal AC input/Full range
- Built-in active PFC function
- DC output voltage adjustable
- Protections : Short circuit/Over load/Over voltage/Over temperature
- Cooling by free air convection
- DIN rail TS-35/7.5 or 15 mountable
- LED indicator for power on
- 3 years warranty

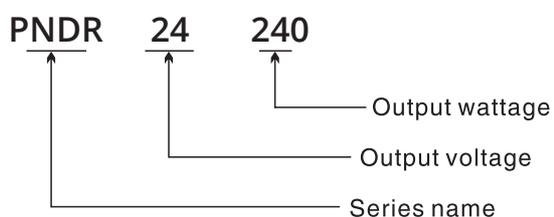
## ■ Applications :

- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus

## ■ Description :

PNDR-240 is one economical slim 240W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 63mm in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 90VAC to 264VAC and conforms to BSEN /EN61000-3-2, the norm the European Union regulates for harmonic current. PNDR-240 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 88%, the entire series can operate at the ambient temperature between -20°C and 60°C under air convection. It is equipped with constant current mode for over-load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus (IEC 62368-1, UL 508, UL 62368-1 ) make PNDR-240 a very competitive power supply solution for industrial applications.

## ■ Model Encoding

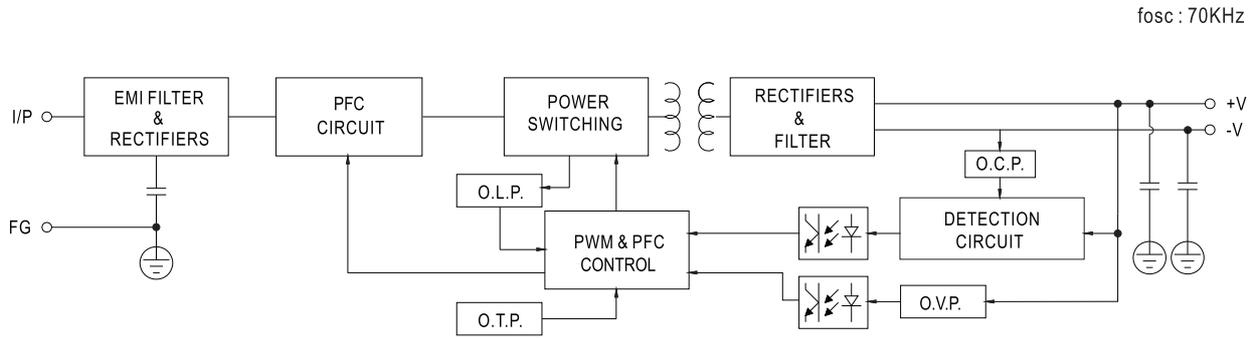


### SPECIFICATION

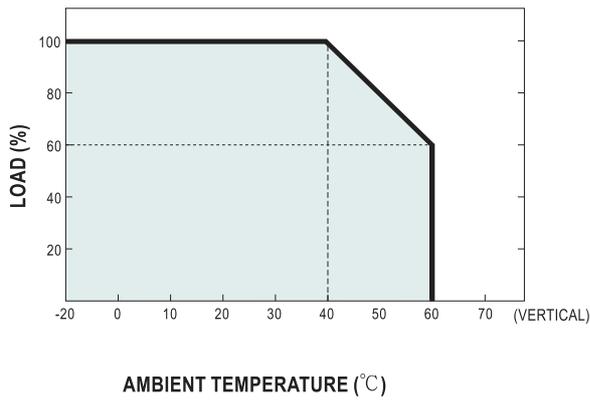
MODEL		PEDR-24-240	PEDR-48-240
Output	DC voltage	24V	48V
	Rated current	8.3A	5A
	Current range	0~8.3A	0~5A
	Rated power	240.4W	240W
	Ripple&noise	240mVp-p	500mVp-p
	DC voltage ADJ. range	±5%	±5%
	Voltage tolerance <small>Note.3</small>	±2%	±2%
	Line regulation <small>Note.4</small>	±0.5%	±0.5%
	Load regulation <small>Note.5</small>	±2%	±2%
	Setup, rise, hold up time	800ms, 50ms, 16ms/230VAC (full load)	
Input	Voltage range	100~240VAC 47~63Hz, 141~339VDC	
	Efficiency	86%	88%
	AC current	2.8A/115VAC 1.4A/230VAC	
	Inrush current	Cold start 25A/115VAC 50A/230VAC	
	leakage current	<3.5mA/220VAC	
	Power factor	PF>0.98/115VAC, PF>0.95/230VAC (full load)	
Protection	Overload	Rated output power 110%~140% Start overload protection	
		Protection type: hiccup mode, auto-recovery after fault condition is removed	
	Over voltage	Rated output voltage 115%~135% Start over voltage protection	
Protection type: hiccup mode, auto-recovery after fault condition is removed			
Over temperature	Turn off output, normal output can be restored after power restart		
Environment	Working temp& humidity	-20°C~+60°C (Please refer to "derating curve") 20%~90%RH, Non-condensing	
	Storage temp& humidity	-40~+85°C, 10~95%RH, Non-condensing	
	Withstand vibration	10~500Hz, 2G 10min./1Cycle, Period for 60min, Each axes	
Safety	Withstand voltage	I/P-O/P: 3KVAC I/P-FG: 2KVAC O/P-FG: 0.5KVAC	
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C/70%RH	
Standards compliance	Safety standards	Compliance to UL62368-1, TUV EN 62368-1	
	EMC emission	Compliance to EN55032 (CISPR22) Class B	
	EMC immunity	Compliance to EN55024	
Others	Dimension	63*125.2*113.5mm (W*H*D)	
	Weight	0.85kg/18pcs/16.3kg/0.93CUFT/0.27m <sup>3</sup>	

- Note: 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  
 3. Tolerance : includes set up tolerance, line regulation and load regulation.  
 4. Line regulation is measured from low line to high line at rated load.  
 5. Load regulation is measured from 0% to 100% rated load  
 6. The ambient temperature derating of 5°C/1000 m is needed for operating altitude greater than 2000m(6500ft)  
 7. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests.

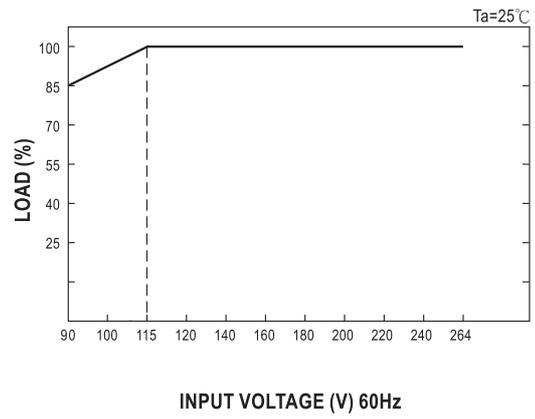
### Block diagram



### Derating curve

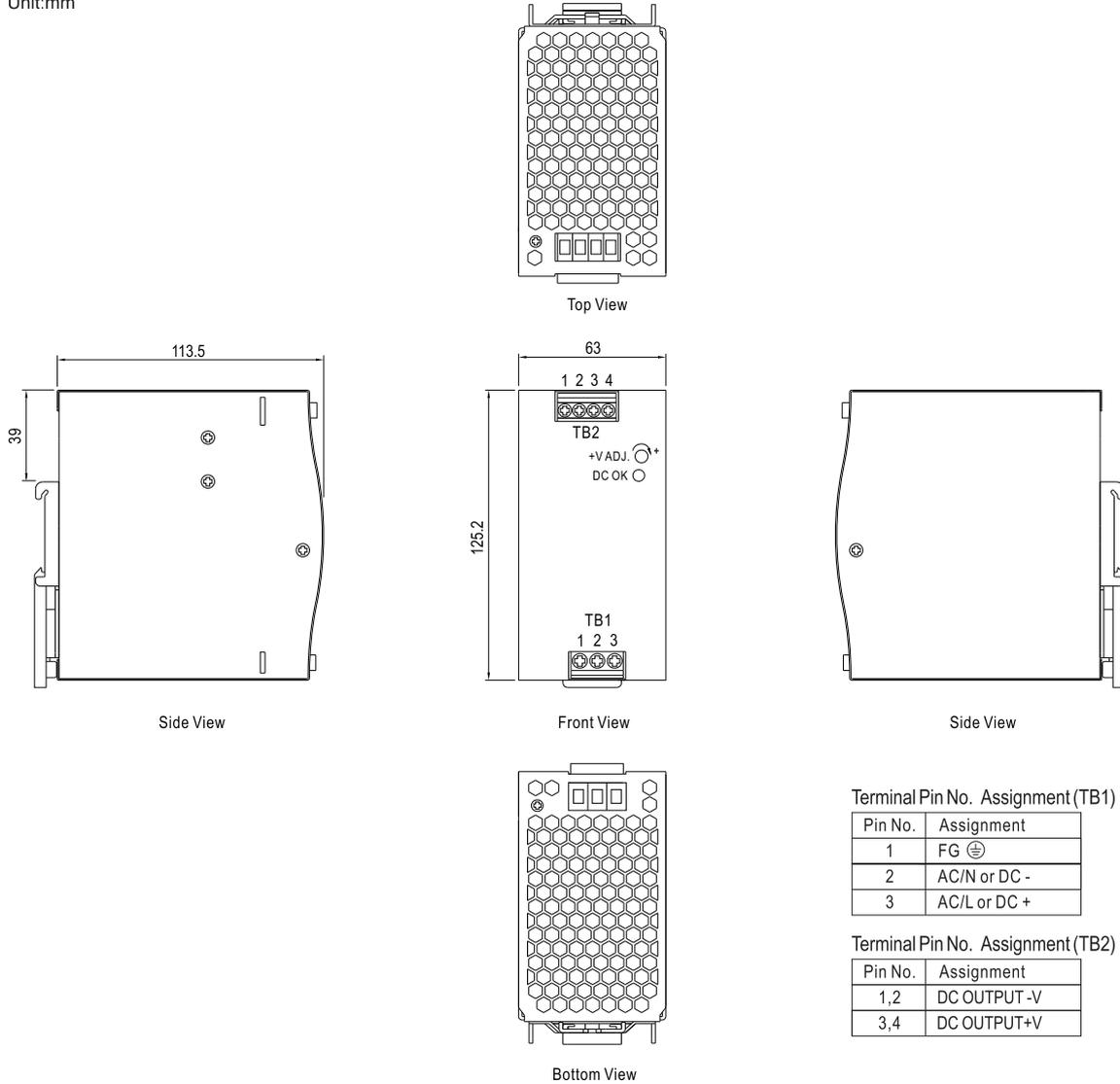


### Static characteristic



### Mechanical specification

Unit:mm



### Installation Instruction

