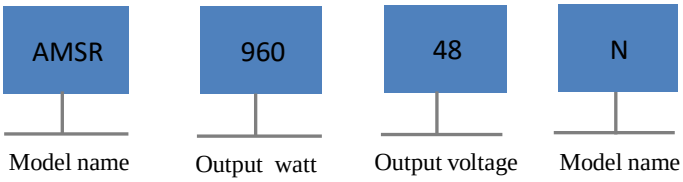
AMSR960□N Series



▲ Features

Cooling by free air convection
High efficiency 94% and low power dissipation
Built-in constant current limting circuit
130% peak load capability
Built-in DC OK relay contact
AC input 180-264VAC only
110mm slim design
Protections:Short citcuit/Overload/Over voltage/Over temperature
Built-in active PFC function
Can be installed on DIN rail TS-35/7.5 or 15
100% full load burn-in test
3 years warranty

▲ Model Encoding

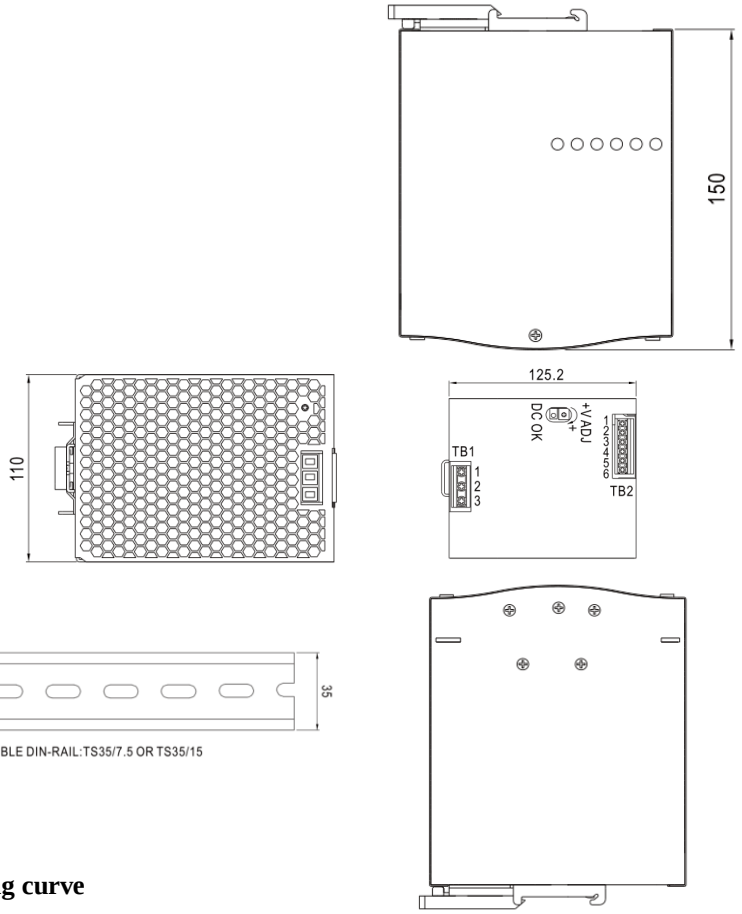


AMLPULS®

Specifications

Input		
Voltage range Note.1	180-264VAC 254-370VDC	
AC current (Typ.)	6A/230VAC	
Frequency range	47-63Hz	
Inrush current (Typ.)	Cold Start 50A//230VAC	
Leakage current	<3.5mA/240VAC	
Output		
DC voltage (V)	24V	48V
Efficiency	94%	94%
Rated Current (A)	40A	20A
Current range	0-40A	0-20A
Rated power(W)	960W	960W
Voltage ADJ. range	24-28V	48-55v
Peak current	52A	26A
Peak power Note.8	1248W(3sec.)	
Ripple & noise(max) Note.2	180mVp-p	250mVp-p
Voltage tolerange Note.4	±1.0%	±1.0%
Line regulation	±0.5%	±0.5%
Load regulation	±1.0%	±1.0%
Setup，rise time	1000ms 100ms/230VAC (at full load)	
Hold up time （Typ.)	14ms/230VAC (at full load)	
Status indicator	Green LED	
Protection		
Overload	Normally works within 105-130% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery after 30 seconds if the peak load condition is removed	
	Constant current limiting within 130-150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power on to recover	
Over voltage(V)	29-33V	56-65V
	Protection type:Shut down O/P voltage ,with auto-recovery or re-power on to recover	
Over temperature	Shut down o/p voltage recovers automatically after temperature goes down	
Safety and EMC (Note.6)		
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC/OK:0.5KVAC	
Isolation resistance	I/P-O/P,I/P-FG,O/P-FG :＞100M Ohms/500VDC/25℃/70％RH	
Safety standards	Design reference to UL508, TUV BS EN/EN62368-1, BIS IS13252 Part1 , , EAC TPTC 004 approved ; (meet BS EN/EN60204-1	
EMC emission	Design reference to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Conduction class B, Radiation classA, BS EN/EN61000-3-2,-3, EAC TP TC 020, BSMI CNS13438	
EMC immunity	Design reference to EN61000-4-2,3,4,5,6,8,11, EN55035, EN61000-6-2 (EN50082-2), EN61204-3, BS EN/ BS EN/ BS EN/ BS EN/ BS EN/ heavy industry level, EAC TP TC 020	
Environmental		
Working temperature	- 30～+70 ℃ （Refer to "Derating curve "）	
Storage temperature humidity	- 40～+85℃,10-95% RH non-condensing	
Working humidity	20-95％RH non-condensing	
Vibration	Component:10-500Hz,2G 10 min/1cycle ,60 min each along X,Y,Z axes	
Others		
Mean time between failure	660.2K hrs min. Telcordia SR-332 (Bellcore) ; 70.7K hrs min. MIL-HDBK-217F (25℃)	
Installation	Install on DIN rail TS35	
Weight	2.47kg	
Length*width*height	110*125.2*150mm	
Data	**Details**	**Model name**
	AMSR 960W 40A/24V	AMSR96024N
	AMSR 960W 20A/48V	AMSR96048N

Installation Instruction



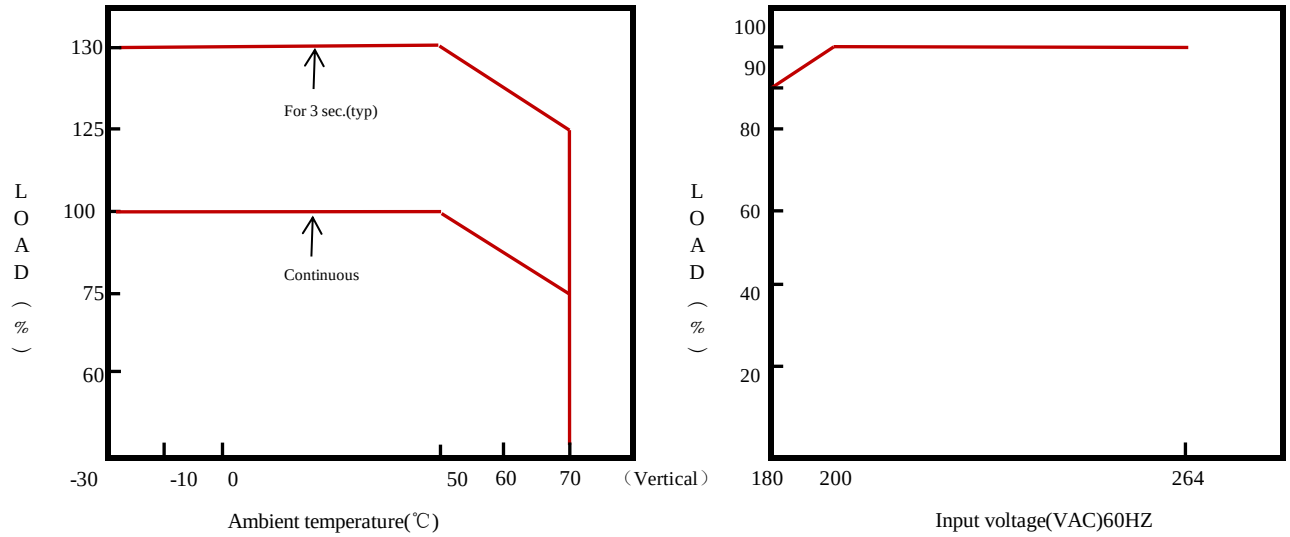
Terminal Pin No.Assignment(TB1)

Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Terminal Pin No.Assignment(TB2)

Pin No.	Assignment
1,2,3	DC Output +V
4,5,6	DC Output -V

Derating curve



Note:

1.Derating may be needed under low input voltage.Please check the derating curve for more details.
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.All parameters NOT specially mentioned are measured at 230VAC input,rated load and 25℃ of ambient temperature.
4.Tolerance:includes set up tolerance,line regulation and load regulation.
5.The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
6.The power supply is considered a component which will be installed into a final equipment .The final equipment must be re-confirmed that is still meets EMC directives
7.Installation clearances:40mm on top,20mm on the bottom,5mm on the left and right side are recommended when loaded permanently with full power,In case the adjacent device is a heat source,15mm clearance is recommended.
8.3 seconds max.please refer to peak loading curves