

Product Feature

1. Three-Phase 340 ~ 550VAC wide range input
2. Width only 110mm
3. Protections: Overload/Over voltage/Over temperature
4. Cooling by free air convection
5. Can be installed on DIN rail TS-35/7.5 or 15
6. 100% full load burn-in test
7. 3 years warranty

Safety regulations and electromagnetic compatibility

- Safety specification UISOB, IEC60950-1,,UL 62368-1,BIS IS13252(Part1)(only for 24V),AS/NZS 62368.1,EAC TP TC 004
- Withstand voltage

Input-output :3KVAC, input-ground:2KVAC, output-ground:0.5KVAC O/P-DC OK(optional):0.5KVAC

- Insulation impedance

Input-output and input -output -ground:100M Ohms/500VDC/25°C,70%RH

- Electromagnetic compatibility

Meet BS EN /EN55024 , BS EN/EN61000-6-2, CCC GB17625.1, GB/T9254, BSMI CNS13438

Note: The power supply should be considered as part of the components in the system, and the electromagnetic compatibility should be confirmed with the terminal



3 years
Warranty

2000g/Typ.

Environment

- Operating temperature/humidity
-30°C~+70°C/20-95%RH, non-condensing (please refer to "Derating curve")
- Storage temperature/humidity
-40°C~+85°C/10-95%RH, non-condensing
- MTBF
647.1K hrs min. Telcordia SR-332(Bellcore); 59.5K hrs min.
MIL-HDBK-217F (25°C)

Electrical Specifications

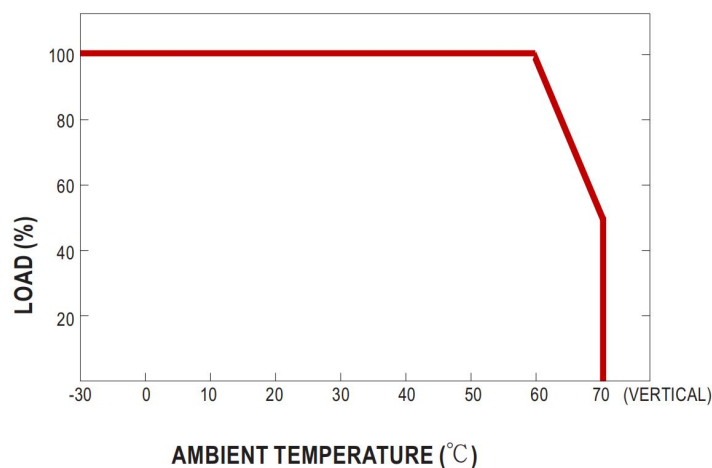
Model number	DMT-960-24	DMT-960-48
DC output	24V	48V
Rated current	40A	2A
Current range	0~40A	0~2A
Rated power	960W	960W
Ripple and noise(Max.)	180mVp-p	250mVp-p
Voltage range	24~28V	48~55V
Voltage accuracy	±1.0%	±1.0%
Linear adjustment rate	±0.5%	±0.5%
Load adjustment rate	±1.0%	±1.0%
Start /rise time	1000ms,60ms/400VAC 800ms,60ms/500VAC(full load)	
Holding time(Typ.)	12ms/400VAC 14ms/500VAC(full load)	
Voltage range	Three-phase 340~550VAC(can also be dual-phase operation)or 480~780VDC	
Frequency range	47~63Hz	
PF	PF≥0.53/400VAC PF≥0.52/500VAC at full load	
Efficiency(Typ.)	93%	93.5%

AC current(Typ.)	2A/400VAC 1.4A/500VAC	
Inrush current(Typ.)	Cold start(60A)	
Leakage current	<3.5mA/530VAC	
Overload protection	105-130%of rated output power	
	Protection mode:constant current limit,shut off output after 3 seconds,restart and restore	
Over-voltage protection	29~33V	56~65V
	Protection mode:hiccup mode,automatically recovered after fault disappears	
Over-temperature protection	Turn off the O/P voltage and recover automatically after the temperature drops	
Dimension	110*150*125.2mm	
Weight	2.0kg	

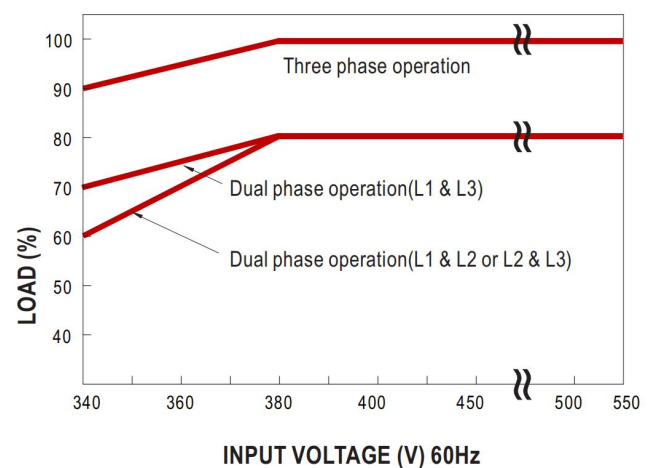
Note:

1. Unless otherwise specified, all parameters are measured under the input 230VAC, full load, and 25°(ambient temperature).
2. Ripple and noise measurement method:Use a 12 twisted pair cable and output terminals are paralleled with 0.1 μ F and 47 μ F capacitors, and measured at 20MHZ bandwidth.
3. Installation gap: When the load is continuously fully loaded,the installation distance should be 40mm from the top, 20mm from the bottom, and 5mm from each side. If adjacent equipment is a heat source, a gap of 15mm is required.
4. When the altitude exceeds 2000 meters (6500 feet), the ambient temperature of fanless models decreases at a rate of every 3.5 $^{\circ}$ C/1000 meters, while the ambient temperature of fanless models decreases at a rate of every 5 $^{\circ}$ C/1000 meters

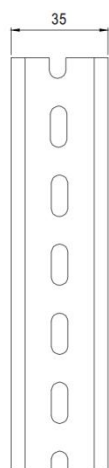
Derating Curve



Output Derating VS Input Voltage



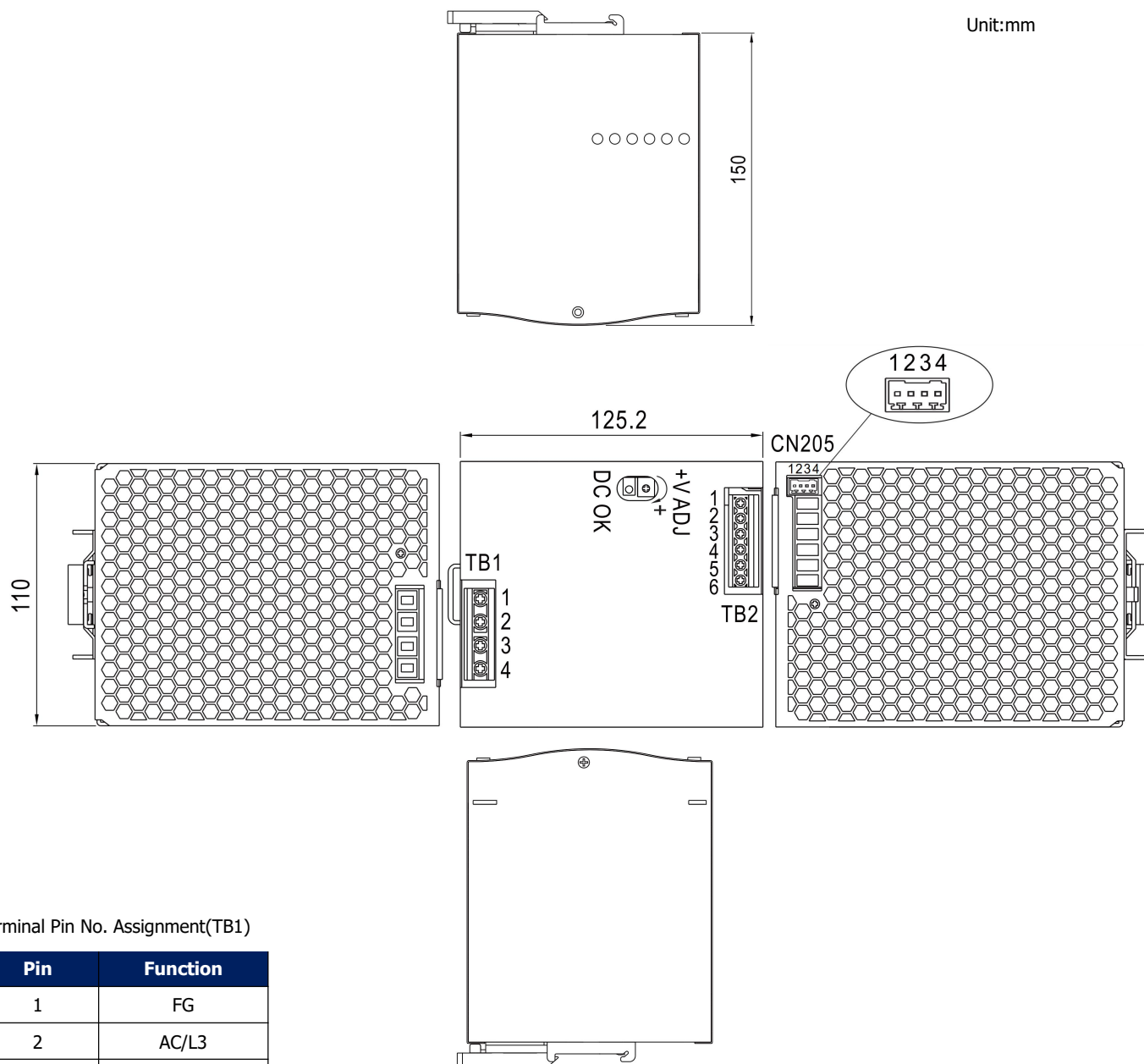
Installation Instruction



Install DIN rail TS35/7.5 or TS35/15

This series fits DIN rail TS35/7.5 or TS35/15.

Mechanical Specification



Terminal Pin No. Assignment(TB1)

Pin	Function
1	FG
2	AC/L3
3	AC/L2
4	AC/L1

Terminal Pin No. Assignment(TB2)

Pin	Function
1,2,3	DC OUTPUT +V
4,5,6	DC OUTPUT -V

Control Pin (CN205):DINKLE ECH250R-04P or equivalent

Pin	Pin function	Corresponding connector	Wire diameter
1	P-(Current Share)	DINKLE ESC250V-04P or its equivalent (Includes a single package)	0.081~0.517mm ² (28~20AWG)
2	P+(Current Share)		
3,4	DC OK Relay Contact		

DONGGUAN AMCHARD-POWER TECHNOLOGY CO., LTD.

www.amchard-power.com

Mail:info@amchard-power.com