

YSDT240 SERIES 240W



YSDT series are designed with metal housing and for there phase system with wide range from 340V AC to 550V AC..

The series ofer built-in constant current limiting circuit and active PFC function, and operating in wide temperature range.

They are suitable for industrial-related applications such as industrial control, semiconductor fabrication equipment, and factory automation etc.

Features

3-phase 340~550VAcwide Range Input (2-phase operation possible)	PFC Built-in passive pFc Function
protection:short circuit/overload /over Voltage/over Temperature	DC Dc oK Relay contact
CCL Bulit-in constant current Limiting circuit	High Efficiency 92% and Low power Dissipation
↓ Full power Between -30~+60 ℃	3 Three years warranty

Model Information

yingjiao Part number	DC VOLTAGE	RATED CURRENT	RATED POWER	VOLTAGE ADJ. RANGE
YSDT240-24	24V	10A	240W	24 ~ 28V
YSDT240-48	48V	5A	240W	48 ~ 55V

Input

RATED INPUT	Three-Phase 380~ 480VAC (Dual phase operation possible in
	connecting L1,L3,FG or L2,L3,FG) or 480 ~ 780VDC
INPUTVOLTAGE RANGE	340 ~ 550VAC/480 ~ 780VDC
FREQUENCY RANGE	47~63Hz
POWER FACTOR (TYP.)	PF≥0.53/400VAC at full load
	PF≥0.52/500VAC at full load
EFFICIENCY (TYP.)	92%
AC CURRENT (TYP.)	0.69A/400VAC
	0.6A/500VAC
INRUSH CURRENT (TYP.)	COLD START 50A
LEAKAGE CURRENT	<2mA / 530VAC

Output

100mVp-p YSDT240-24
120mVp-p YSDT240-48
± 1.0%
±0.5%
± 1.0%
2000ms, 60ms/400VAC at full load
1500ms, 60ms/500VAC at full load
20ms / 400VAC at full load
40ms / 500VAC at full load

protection

OVER LOAD	105 ~ 130% rated output power	
	protection tYpe : Constant current limiting, unit will hiccup after 3 sec.	
OVERVOLTAGE	30~36V YSDT240-24	
	56~65V YSDT240-48	
	protection tYpe : Hiccup mode, recovers automaticallY after fault condition is removed.	
OVERTEMPERATURE	Shutdown o/p voltage, recovers automaticallY after temperature	
	goes down	

Function

DC OK REALY CONTACT RATINGS (max.)	60VDC/0.3A, 30VDC/1A, 30VAC/0.5A resistive load

Environment

WORKINGTEMP.	-30 ~ +70 °C (Refer to "Derating Curve")
WORKING HUMIDITY	20 ~ 95% RH non-condensing
STORAGETEMP., HUMIDITY	-40 ~ +85 °C, 10 ~ 95% RH non-condensing
COLD START	-40 °C
TEMP. COEFFICIENT	±0.05%/ °C (0 ~ 60 °C)
VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cYcle, 60min. each along
	X,Y, Z axes; Mounting: Compliance to IEC60068-2-6
OPERATING ALTITUDE	5000 meters
OVERVOLTAGE CATEGORY	III; According to EN61558, EN50178, EN60664-1, EN62477-1,
	EN60204-1; altitude up to 2000 meters
MTBF	1500k hrs min.TelcordiaSR-332(Bellcore)

SAFETY & EMC

SAFETY STANDARDS	UL61010-1, UL61010-2-201, BS EN/EN61010-1
WITHSTANDVOLTAGE	l/P-O/P:4.87KVAC l/P-FG:2.4KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC
ISOLATION RESISTANCE	l/P-O/P, l/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/ 70% RH
EMC EMISSION	BS EN/EN55032(CISPR32)
EMC IMMUNITY	BS EN/EN61000-4-2, 3, 4, 5, 6, 8

Note

1.AII parameters NOT speciaIIY mentioned at 400VAC input, ratedIoad and 25°C of ambient temperature.

2.RippIe&noise are measured at 20MHz of bandwidth bY using a 12,, twisted pair-wire terminated with a 0.1uF & 47uF

parallel capacitor.

3.Installation clearances: top with 40mm, bottom with 20mm, left and right with 5mm. Increase the space to

10-15mm when the adjacent device is heat source.

4. The ambient temperature derating of 3.5 °C/1000m for operating aItitude higher than 2000m(6500ft).

5. The power suppIY is considered 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, please

refer to"EMl testing of component power supplies."

Dimensions & weight

Length:	63mm / 2.48in
width:	113mm / 4.45in
Height:	125mm / 4.92in
weight:	lkg

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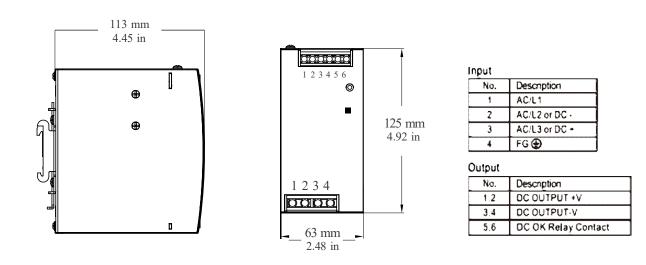
carton size:

Master carton Quantities:

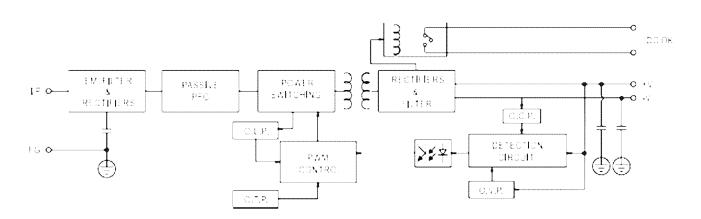
20.7 X 13 X 6.9 in 10pcs / Carton

52.5 X 33 X 17.5 CM

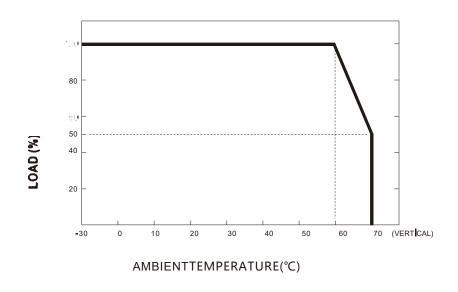
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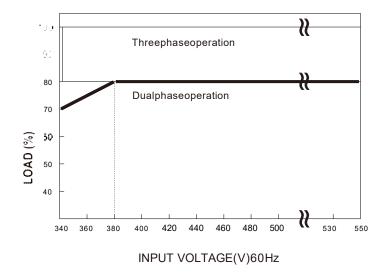
BIOcK Diagram



Deduction curve and Temperature



Minus output and Input voltage curves



DC OK RELAY CONTACT

Contact Close	PSU turns on 100 OK,
Contact Open	PSU turns off - DC Fall,
Contact Ratings (max,)	30VDC/14, 30VAC/0,5Aresistive load.

Output

0.0(00)		
No.	Description	
K G	DO OK Relay Contact	

