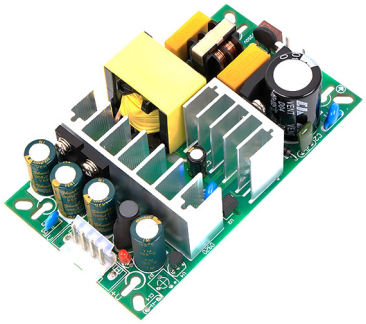
TPS-YSU65S Series

Single Output Open Frame Power Supply



Features

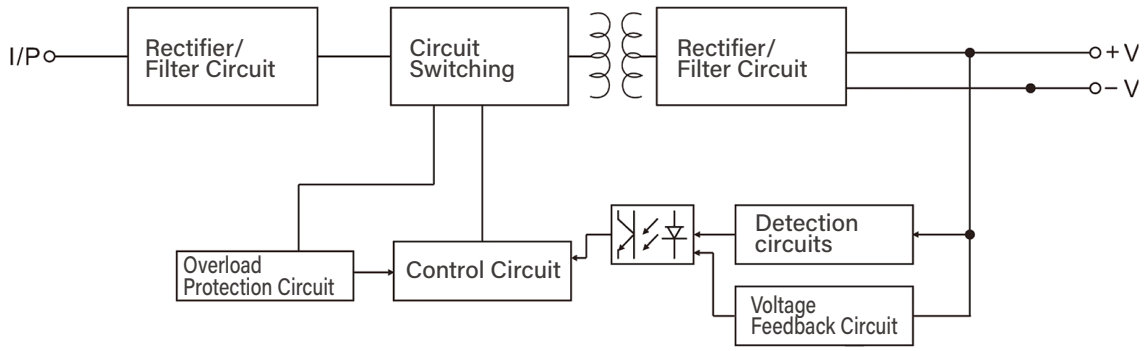
- Wide Input Voltage Range
- Overload, short-circuit, and over-voltage protection
- Small Size, High Efficiency
- Full-load burn-in testy
- Ultra-low output ripple

Electrical Specifications

Specifications		TPS-YSU65S-5V	TPS-YSU65S-12V	TPS-YSU65S-15V	TPS-YSU65S-18V	TPS-YSU65S-24V	TPS-YSU65S-36V	TPS-YSU65S-48V
Output	Output Voltage	5V	12V	15V	18V	24V	36V	48V
	Rated Current	8A	5A	4.0A	3.5A	2.5A	2A	1.5A
	Current Range	0-10A	0-5.5A	0-4.5A	0-4A	0-3A	0-2.2A	0-1.5A
	Ripple	<100mVp-p	<100mVp-p	<130mVp-p	<130mVp-p	<130mVp-p	<220mVp-p	<200mVp-p
	Output Accuracy	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Voltage Regulation Rate	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Load Regulation Rate	±1.1%	±1%	±1%	±1.3%	±1%	±1%	±1%
	Rated Power	40W	60W	60W	60W	60W	72W	72W
	Adjustable Output Range	Selectable adjustable or fixed constant voltage output						
	Startup/Rise/Hold Time	300ms、50ms、50ms/220VAC						
Input	Input Voltage Range	100~264VAC						
	Input Current	<1.0A(average current 0.4~0.9A)						
	Frequency Range	47~63Hz						
	Efficiency	74%	81%	82.5%	82.5%	84.5%	87.6%	88%
	Inrush Current	COLD START <50A/230VAC						
	Leakage Current	<5mA/220VAC						
Protection	Over-power Protection	150~170% of rated power, auto recovery after fault is removed						
	Over-voltage Protection	VH1:>150%						
	DC short-circuit protection	Hiccup mode, auto-recovery after short is removed						
Environment	Operating Temperature and Humidity	-15°C~+50°C@100%LOAD,+60℃@60%LOAD: 20%-90%RH						
	Storage Temperature and Humidity	20°C~+8510%-95%RH						
Safety and EMC	Safety standards	MEET Gb4943						
	Withstand Voltage	I/P-O/P:2.5KVAC 1min.						
	Insulation Resistance	I/P-O/P:500VDC/100M Ohms						
Mechanical Mharacteristics	Dimensions (LxWxH)	108×62×30mm						
	Weight	146g						
Notes	1. All parameters are measured at a rated input voltage of 220VAC, rated load, 25°C, and 70% humidity. 2. Accuracy includes setup error, voltage regulation, and load regulation. 3. Ripple measurement: Power supply and load are connected with 30cm twisted wires, with 0.1μF and 47μF capacitors at the load end, measured by a 20MHz oscilloscope. 4. Voltage adjustment rate is measured by changing the input voltage from low to high with rated load. 5. Load regulation is measured from 0% to 100% load. 6. Each output can deliver the maximum current, but the total load should not exceed the maximum rated power.							

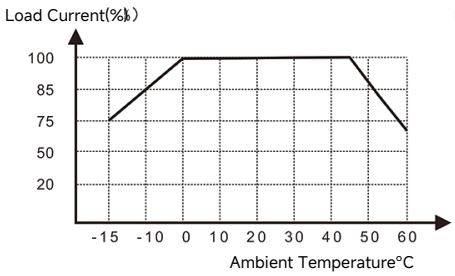
Block Diagram

Frequency: 60~70Hz

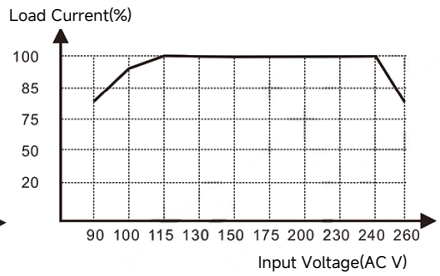


Full Voltage Efficiency Curve

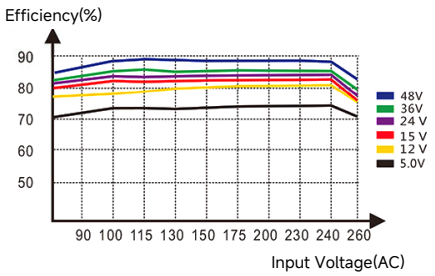
Ambient Temperature Derating Curve



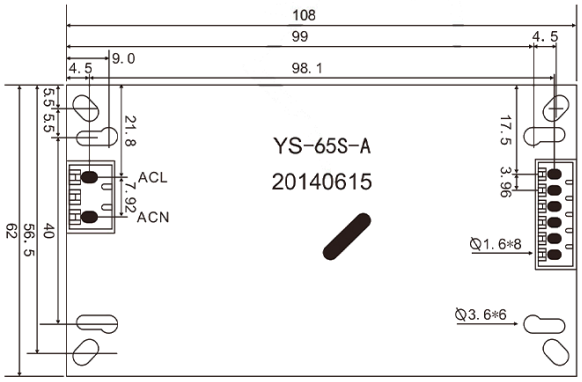
Load Current Derating Curve

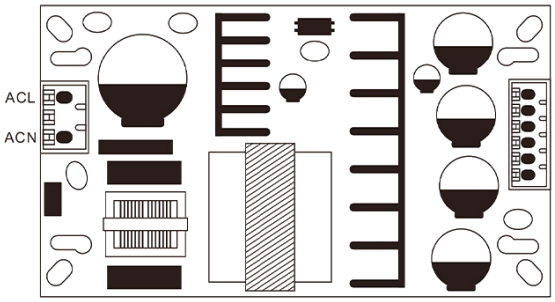


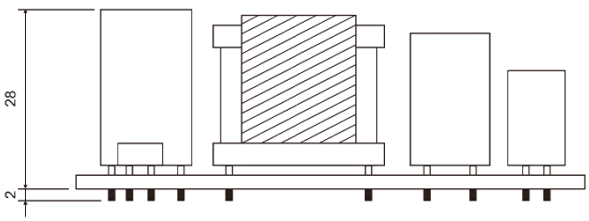
Efficiency Percentage



Dimensions (mm)







This electronic device must not be disposed of in the household waste at the end of its service life. For your return, there are free collection points for electrical appliances and, if necessary, additional points of acceptance for the reuse of the devices in your area.The addresses an be obtained from your city or cummunal administration. If the old electrical or electronic device contains personal data, you are esponsible for deleting it before you return it. Further information: www.elektrogesetz.de