HYAD-10W Series



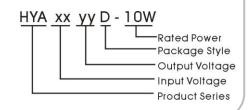
Features

- ★ Input / output Isolation Voltage 1000 VDC
- DIP Package
- **★** Temperature Range:-40°C to +85°C
- ★ UL94V-0 Inflaming retarding package
- **★** MTBF>1 million hours(25°C)
- **★** Short-circuit protection
- ★ Efficiency up to 86%



Applications

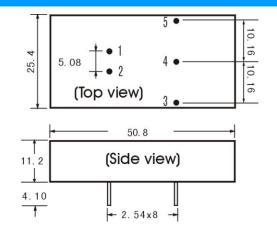
The HYA_D-10 series offer 10W of output, and features 1000VDC isolation and short-circuit. All models are particularly suited to tele-communications, industrial, test equipments power and other fields.

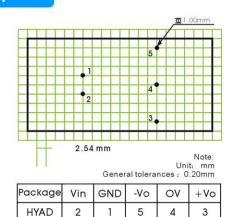


Model Detail List Specification

Model Number	Input Voltage range	Output	Output Current(mA)		Input Current Full load.(mA)		Efficiency	Max. Capacitive
	(nominal voltage)	Voltage	Min.	Max.	Max.	No.		Load(µF)
HYA1205D-10W		±5.0V	±100	±1000	520		80%	
HYA1212D-10W	9~18VDC	±12.0V	±41	±417	508		82%	
HYA1215D-10W	(12 VDC)	±15.0V	±33	±334	509		82%	
HYA1224D-10W		±24.0V	±21	±209	503		83%	
HYA2405D-10W		±5.0V	±100	±1000	251		83%	
HYA2412D-10W	18~36VDC	±12.0V	±41	±417	245		85%	1200
HYA2415D-10W	(24 VDC)	±15.0V	±33	±334	248		84%	1200
HYA2424D-10W		±24.0V	±21	±209	245		85%	
HYA4805D-10W		±5.0V	±100	±1000	125		83%	
HYA4812D-10W	36~72VDC	±12.0V	±41	±417	121		86%	
HYA4815D-10W	(48 VDC)	±15.0V	±33	±334	121		86%	
HYA4824D-10W		±24.0V	±21	±209	121		86%	

Mechanical Dimensions & Recommended Footprint





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Output Specifications

Item	Test Conditions	Min.	Тур.	Max.	Unit	
Output Power		0.5		10	w	
Output Voltage accuracy 0% to 100% load				±2		
Line Regulation	Full load, Input voltage from low to high		±0.2	±0.5	%	
Load regulation	5% to 100% load		±0.3	±0.5		
Ripple & Noise 20MHz Bandwidth			75	105	mVp-p	
Transient Recovery Time	250/ load stop shapes		0.5	2	ms	
Transient Response Deviation	- 25% load step change		±2	±5	%	
Temperature Drift	100% full load		±0.02	±0.03	%/°C	
Short Circuit Protection		Hiccup, C	ccup, Continuous, automatic recovery			
Input Filter		∏ Filter				

Environmental Specifications

Item	Test Conditions	Min.	Тур.	Max.	Unit
Storage Humidity	Non condensing			95	%
Temp. rise at full load			25		
Operating Temperature		-40		+85	°C
Storage Temperature	Temperature ≥85°C derating	-55		+125	
Soldering Temperature	1.5mm from case for 10 seconds			300	
Cooling		Free air convection			

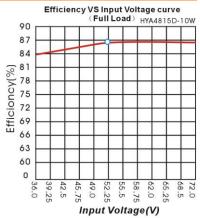
Common Specifications

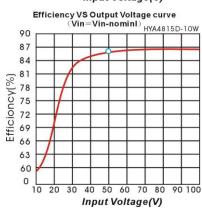
Item	Test Conditions	Min.	Тур.	Max.	Unit
Isolation Voltage	Tested for 1 minute and leakage current less than 1 mA	1000			VDC
Switching Frequency	Full load, nominal input	150	200	300	KHz
MTBF	MIL-HDBK-217F@25℃	1000			Khours
Isolation Capacitance	Input/Output , 100KHz/1V		1200		PF
Isolation Resistance	Test at 500VDC	1000			MΩ
Weight			20		g

Input Specifications

Item	Test Conditions	Min.	Тур.	Max.	Unit
Input Max. voltage	12 VDC Input (9~18V)			20	VDC
	24 VDC Input (18~36V)			40	
	48 VDC Input (36~72V)			80	
Input surge voltage (1 sec. Max.)	12 VDC Input (9~18V)			25	
	24 VDC Input (18~36V)			50	
	48 VDC Input (36~72V)			100	

Product typical Curve





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Temperature Derating Graph

