mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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TDK·Lambda HWS600/1000L BAT Series

36V & 60V Battery Charger Power Supplies

Features

- Low Profile
- Active Power Factor Correction
- Universal Input (85 265VAC)
- Low acoustical noise
- Medical certifications (HWS1000L)
- Adjustable current limit
- Constant current style limit



Key Market Segments & Applications



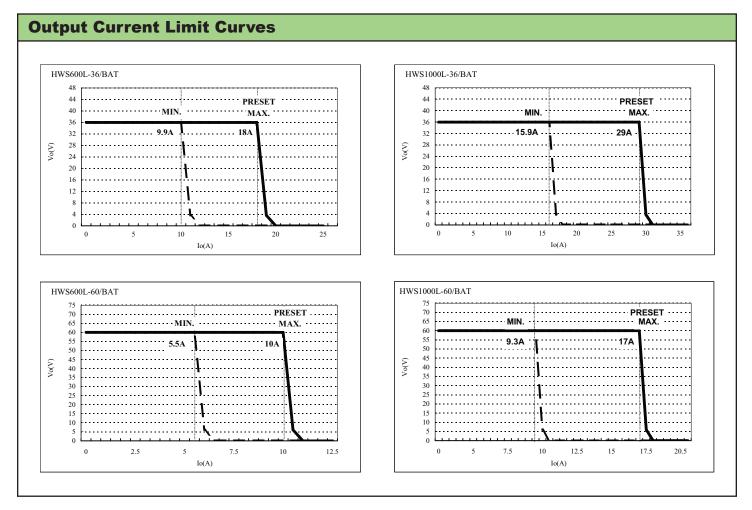
Specifications							
Model		HWS600L	HWS1000L				
Input Voltage range	V	85 - 265VAC (47 - 63Hz) or 120 - 350VDC					
Inrush Current (115 / 230VAC)	A	20 / 40					
Power Factor	-	Meets EN61000-3-2 Class A					
Input Current (100/200VAC)	Α	7.1 / 3.6	12 / 6				
Temperature Coefficient	-	<0.02	<0.02%/°C				
Constant Current Set Accuracy	-	±10%					
Overvoltage Protection	V	36V: 45 - 52.2V; 60V: 69 - 81V					
Overtemperature Protection	-	Yes, cycle AC or Remote On/Off to reset					
Hold Up Time (Typ)	ms	20ms at 115/230VAC					
Leakage Current (max)	mA	<0.75mA	100uA at 115VAC 60Hz ⁽¹⁾				
Remote Sense	-	Yes					
Parallel Connection	-	Yes					
Remote On/Off (CNT)	-	Yes					
Voltage Programming	-	Yes, 1-6V adjusts output (see manual for limits)					
DC Good & Fan Fail Signal	-	Yes, open collector output					
Auxiliary Output	-	12V 0.1A					
LED Indicator	-	Green LED = On					
Operating Temperature	°C	-40°C start up20 to 74°C, derating linearly to 50% load above 50°C					
Storage Temperature	°C	-40 to +85°C					
Humidity (non condensing)	RH	20 - 90% RH operating, 10 - 95%RH non operating					
Cooling	-	Variable speed internal fan					
Withstand Voltage		Input to Ground 2kVAC, Input to	Input to Ground 2kVAC, Input to				
(One minute)	-	Output 3kVAC, Output to Ground	Output 4kVAC, Output to Ground,				
		500VAC, Output to CNT 100VA	500VAC, Output to CNT 100VAC				
Isolation Resistance	-	>50M at 25°C & 70%RH, Output to Ground 500VDC					
Vibration (non operating)	-	MIL-STD-810F 514.5 Cat. 4, 10					
Shock	-	MIL-STD-810F 516.5 Procedure I, VI					
Immunity	-	EN61000-4-2 (lvl2, 3), -3 (lvl 3), -4 lvl (3), -5 (lvl 3, 4), -6 (lvl 3), -8 (lvl 4), -11					
Safety Agency Certifications	-	UL, CSA, EN60950-1, UL, CSA, EN60601-1 (1000W only), EN50178, CE Mark					
Conducted & Radiated EMI	-	EN55011 / EN55022-B, FCC Class B					
Weight (Typ)	g	1600	2300				
Size (WxHxD)	In	2.4 x 4.72 x 7.48"	2.4 x 5.91 x 9.45"				
Warranty	yrs	Five Years					

(1) 300uA worse case, 265VAC 63Hz

TDK·Lambda HWS600/1000L BAT Series

Model Selector							
Model	Voltage	Voltage Adjust Range	Current Limit Adjust Range	Load Reg (mV)	Line Reg (mV)	Ripple Noise (mV)	Efficiency Typical (%) ⁽²⁾
HWS600L-36/BAT	36V	28 - 36V	9.9 - 18A	216	144	200	82 / 84
HWS1000L-36/BAT	36V	28 - 36V	15.9 - 29A	216	144	200	84 / 86
HWS600L-60/BAT	60V	48 - 60V	5.5 - 10A	360	240	200	82 / 84
HWS1000L-60/BAT	60V	48 - 60V	9.3 - 17A	360	240	200	84 / 86

Notes: (2) 115 / 230VAC



Other Industrial Products				
SWS	50 - 1000W Single output			
HWS	15 - 1800W Single output, high reliability			
ZWS	5 - 240W pcb style single output			
DLP, DPP, DSP	10 - 480W DIN Rail mount			
LS	25 - 200W Single output, low cost			

For Additional Information, please visit us.tdk-lambda.com/lp/products/hws-series.htm

