

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!



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HFE1600 Series

1600W 1U Front End Power Supplies

Features

- ◆ 1U rackmount containing up to 5 units
- ◆ Internal ORing MOSFET & Current Share
- ◆ High Efficiency
- ◆ Up to 7600W in 1U rack
- ◆ Full array of signals available
- ◆ PMBus™(I2C) and LAN options



Key Market Segments & Applications















Industrial COTS Test COMM

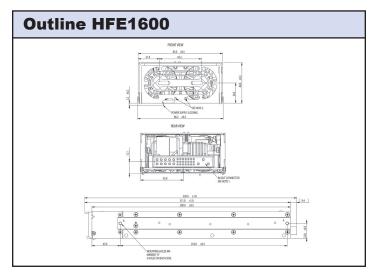
Specifications							
Model							
Input Voltage Range (2) VAC	85 - 265VAC, 47 - 63Hz. See model selector for power derating					
Input Current (Max) 115/230VAC		14.2 / 8.1A					
Inrush Current	Α	<35A					
Power Factor Correction	-	Meets EN61000-3-2, PF > 0.98 at full load					
Temperature Coefficient	%/°C	<0.02%/°C					
Overcurrent Protection	%	105 - 120%					
Overvoltage Protection (1) %	110% (Tracking). Cycle AC to reset or utilize Remote On/Off					
Overtemperature Protection (1) -	Shutdown with automatic reset. Warning signal provided					
Hold up time	ms	>10ms, 115/230VAC Input, 80% loading					
Leakage Current	mA	< 0.75 / 1.5mA 100/230VAC, 60Hz					
Remote Sense Compensation		HFE1600-12: 0.25V/wire, HFE1600-24: 0.5V/wire, HFE1600-32: 0.75V/wire, HFE1600-48: 1.0V/wir					
Indicators	-	AC OK: Green LED, DC OK / Fail: Green / Red LED					
Remote On/Off	-	Unit ON: 0 - 0.6V or short, OFF: 2 - 15V or open circuit					
Parallel Operation (1) -	Yes, single wire current share, 90% accuracy, up to 10 units					
AC Fail Signal	-	Open Collector, ON when AC is within 85 - 270VAC					
DC Good Signal	-	Open Collector, ON when output is above 85 to 95% of setpoint (tracking)					
Remote Adjust (1) -	By either external 0 - 5V signal or 1k potentiometer					
I ² C Interface (1) -	Isolated from output, Add suffix /S, PMBus compatible					
Auxiliary Output	-	11.2 - 12.5V, 0.5A, 240mV ripple and noise					
Operating Temp. (-TB Rack)	°C	-10 to +70°C, derate 2%/°C from 50 to 60°C, 2.5%/°C from 60 to 70°C					
Operating Temp. (-IEC320 Rack)	°C	-10 to +60°C, derate 2%/°C from 50 to 60°C					
Storage Temperature	°C	-30 to +85°C					
Humidity (Non condensing)	%RH	Operating: 10 - 90%RH, Storage: 10 - 95%RH					
Cooling	-	Two variable speed internal fans, airflow exits across input/output connector (3)					
Withstand Voltage	-	I/P to O/P 3kVAC, I/P to GND 2kVAC, O/P to GND: HFE1600-12,-24V 500VAC, HFE1600-48 2250VDC					
Isolation Resistance		>100MΩ at 25°C & 70%RH, Output to Ground 500VDC					
Vibration (Basic transportation)		Meets IEC60068-2-64					
Shock (Basic transportation) -		Meets IEC60068-2-27					
Safety Agency Certifications -		UL60950-1, EN60950-1, CE Mark					
Line Dip -		Complies with SEMI F47 (200VAC line only)					
Conducted and Radiated EMI	-	EN55032 & FCC part 15; Conducted class B, Radiated class A					
Immunity		IEC61000-4-2 (lv 2,3), -3 (lv 2), -4 (lv2), -5 (lv3,4), -6 (lv2), -8 (lv 4), -11					
Size (W x H x D)	in	Power Supply: 3.35 x 1.61 x 11.8", Rack: 17.5 x 1.72 x 14.4"					
Weight	g	Power Supply: 1550g, Rack: 4800g					
Warranty		Three Years					

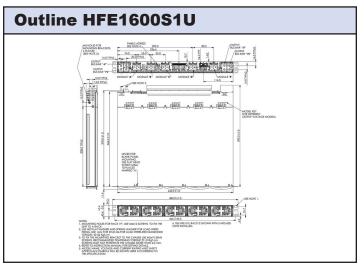
- (1) See installation manual for detailed specifications & test methods
- (2) Derate output power linearly 1%/V from 100VAC to 85VAC input
- (3) Reverse air contact factory

Model Selector							
Model	Output Voltage	Adjust Range ⁽¹⁾	Max Current (Vin>170VAC)	Max Power (Vin>170VAC)	Max Current (100 <vin<170vac)(2)< th=""><th>Max Power (100<vin<170vac)<sup>(2)</vin<170vac)<sup></th></vin<170vac)(2)<>	Max Power (100 <vin<170vac)<sup>(2)</vin<170vac)<sup>	
HFE1600-12	12V	9.6 - 13.2V	133A	1596W	100A	1200W	
HFE1600-12/S	12V	9.6 - 13.2V	133A	1596W	100A	1200W	
HFE1600-24	24V	19.2 - 29V	67A	1608W	50A	1200W	
HFE1600-24/S	24V	19.2 - 29V	67A	1608W	50A	1200W	
HFE1600-32	32V	25.6 - 38.4V	47A	1500W	37.5A	1200W	
HFE1600-32/S	32V	25.6 - 38.4V	47A	1500W	37.5A	1200W	
HFE1600-48	48V	38.4 - 58V	33A	1584W	25A	1200W	
HFE1600-48/S	48V	38.4 - 58V	33A	1584W	25A	1200W	
	Load	Line	Ripple &	Efficiency	PMBus/		
Model	Reg	Reg	Noise ⁽¹⁾	(%) ⁽⁴⁾	I ² C		
HFE1600-12	60mV	30mV	240mV	87 / 90%	-		
HFE1600-12/S	60mV	30mV	240mV	87 / 90%	Yes		
HFE1600-24	120mV	60mV	240mV	88 / 90%	-		
HFE1600-24/S	120mV	60mV	240mV	88 / 90%	Yes		
HFE1600-32	160mV	80mV	320mV	88 / 90%	-		
HFE1600-32/S	160mV	80mV	320mV	88 / 90%	Yes		
HFE1600-48	240mV	120mV	480mV	89 / 92%	-		
HFE1600-48/S	240mV	120mV	480mV	89 / 92%	Yes		

⁽⁴⁾ At 75% load, 115 / 230VAC input

Accessories					
Model	Description	Maximum Rack Current			
HFE1600-S1U	Five slot 19" rack, IEC320-C16 input connectors (5)	266A each side (532A total)			
HFE1600-S1U-TB	Five slot 19" rack, Terminal Block input connectors (5)	266A each side (532A total)			
HFE1600/BP	One slot blanking panel, four provided with each rack	-			
HFE/C15U	AC Power cord, 2.0m long, one per power supply required	-			
HFE1600-D1U	Four slot (two isolated pairs), dual output 19" rack, IEC320 input	266A each side (532A total)			
HFE1600-D1U-TB	Four slot (two isolated pairs), dual output 19" rack, terminal block input	266A each side (532A total)			
HFE1600-LAN	Plug in LAN module. Takes up one rack slot. For use with /S models only.	-			





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

