NEW PRODUCT

Releasing in 2013

High power & High efficiency Unit type AC-DC switching mode power supply

1500W type released in the GPSA series: unit type AC-DC switching mode power supply

GPSA-1500

Ultrahigh efficiency

At 100VAC input, 48VDC output Max. 90% typ!

At 230VAC input, 48VDC output

Max. 93% typ!



Continuous (max.) 1050W/1510W

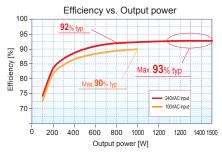
(At 100VAC) (At 200VAC)

Peak (max.)

1320W/2040W (At 100VAC) (At 200VAC)

High efficiency with full-bridge phase-shift circuit

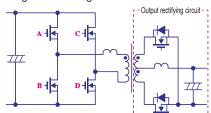
Efficiency 93% with 240VAC input achieved. Reducing the heat generation of power supply enables to achieve the long lifetime not only power supply itself but also as whole system.



What is "full-bridge phase-shift circuit"?

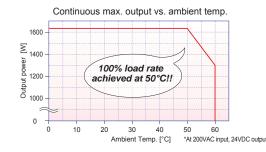
The full-bridge phase-shift circuit drives each FET (A,B,C, and D) by phase shifting which leads voltage resonance and soft switching. Resulting reducing the switching loss and noises

Furthermore. GPSA-1500 achieves high efficiency by not taking the general diode circuit but synchronous rectifying method for output rectifying circuit.



Large capacity output even at high temp.

Continuous 1200W output available at 60°C at 200 VAC input. Excellent performance under high temp, environment such as in warehouses.



High efficiency, high power

Similar size as competitors' 1000W type but it outputs rated 1500W at 200V input

		GPSA-1500-24	Competitor's equivalent	Competitor's equivalent	
Dimension [mm]		128 250	61) 240	82 240	
Detect cuteur	100VAC	44A	44A	46A	
Rated output	200VAC	63A	44A	46A	
Peak output	100VAC	55A	_	_	
	200VAC	85A	51A	58.5A	
Efficiency*	100VAC	90%typ	84%typ	85%typ	
	200VAC	92.5%typ	86%typ	87%typ	
Voltage adjustable range		21.6~28.0V	16.5~26.4V	19.2~28.8V	

*The value of competitor's equivalent model is from their catalog

- High peak power
- Parallel operation available
- Various input/output signals

PS ON signal/Fan monitor signal/PWR OK signal Blackout detection signal/Remote sensing

- Model with backup functionality at blackout will be added to the lineup
- +12V stanby output
- ► Standby power SPEC:

Voltage: 12VDC Current: 0.5A Power: 6W

Low standby power consumption! Power consumption at standby mode complied with ErP directive!

Product specification

Input	85-264 VAC (worldwide range)				
Output voltage	+24V	+48V	+12VSB (Common)		
Max. current / power (At 100VAC)	44A	23A	0.5A		
	1056W	1104W	6W		
Max. current / power (At 200VAC)	63A	34A	0.5A		
	1512W	1632W	6W		
Peak current / power (At 100VAC, 5s max.)	55A	27.5A	0.5A		
	1320W	1320W	6W		
Peak current / power (At 200VAC, 5s max.)	85A	44A	0.5A		
	2040W	2112W	6W		
Min. current	0A	0A	0A		
Dimension	82(W)×128(H)×250(D) [Except fan guard (+5mm), and copper bar (+34mm)]				

*This model is under development, so the outline/specification may be subject to change

High efficiency & Low standby power consumption Fanless ATX power supply

HPCFL-400P

Compliant with ErP directive Lot6

Standby power consumption (an example of actual measurement) 100VAC **0.04W** 230VAC **0.04W**



Continuous (max.) 170W / 305W

400W Peak (max.)

High efficiency (80 PLUS BRONZE level)

► Efficiency actually measured (At 50% load) 87.3% at 115 VAC input 89.0% at 240 VAC input

Min. load current 0A for all outputs (Haswell compliant)

Product specification

Input	85-264 VAC (worldwide range)					
Output voltage	+3.3V	+5V	+12V	-12V	+5VSB	
Max. current / power (Natural air cooling)	10A 10A		14A	0.2A	1A	
	83W max.		168W	2.4W	5W	
	170W max.					
Max. current / power (Forced air cooling)	16A	16A	25A	0.5A	1.5A	
	90W ı	max.	300W	6W	7.5W	
	305W max.					
Peak current / power (5 sec max.)	20A	20A	30A	0.5A	2A	
	120W max.		360W	6W	10W	
	400W max.					
Min. current	0A	0A	0A	0A	0A	
Dimension	106(W)×37(H)×225(D)				

This model is under development, so the outline/specification may be subject to change



High efficiency & Low standby power 1000W class Nonstop power supply

HNSP4-1000P

Compliant with ErP directive Lot6

Standby power consumption (an example of actual measurement) 100VAC 0.06W = 230VAC 0.07W



Continuous (max.) 822W 1000W Peak (max.)

*The front panel is scheduled to be a black panel as same as HPCSA-1000P-E2S.



80 PLUS SILVER scheduled to be approved

► An actual measurement value at 50% load

88.5% at 115 VAC input 89.2% at 240 VAC input

- Min. load current 0A for all outputs (Haswell compliant)
- Silent with built-in thermal sensing speed fan
- High efficiency with synchronous rectification circuit
- Compliant with ErP directive (Standby power consumption lower than 0.5W)

Innut	85-264 VAC (worldwide range) 350VDC(Dedicated battery package)							
прис								
Output voltage	+3.3V	+5V	+12V1	+12V2	+12V3	+12V4	-12V	+5VSB
Max. current / power	25A	25A	18A	18A	18A	18A	0.4A	3A
	207.5W max.		792W max.				4.8W	15W
	822W max.							
Peak current / power (5 sec max.)	30A	30A	25A	25A	25A	25A	0.6A	4A
	249W	max.			V max.		7.2W	20W
	1000W max.							
Min. current	0A	0A	0A	0A	0A	0A	0A	0A
Dimension	150(W):	×85(H)×1	190(D)					

^{*}This model is under development, so the outline/specification may be subject to change

