

Heavy Duty & Compact Multi-output Fanless power supply





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AC100-240V Input(AC85~264V)										
Model			Outp	ut volta	Backup	Note				
	+24V	+3.3V	+5V	+12V	-12V	+5VSB	at Blackout	NOLE		
PCFL-180P-X2S2	-	0	0	0	0	0	0	ATX Output		
PCFL-180P-F1S	0	-	0	0	0	0	-	Multi-Output		
PCFL-180P-F2S	0	0	0	0	0	0	-	ATX+24V Output		
DC 24V Input (DC20~36V)										
		Output voltage Backup								

	Model			Outp	ut voita	.ge		Backup	Note	
		+24V	+3.3V	+5V	+12V	-12V	+5VSB	at Blackout		
	PCFD-180P-X2S	-	0	0	0	0	0	0	ATX Output	

This power supply is one of the heavy-duty power supples which survived Nipron's unique severe test, "Power Match", to meet customers' tough reliability requirement.

"Power Match" is the test to meet customers' severe requirement on reliability under our power policy, that is, "Power supply (Heart) shall never be broken " cultivated by 35-year manufacturing experience of power supplies.

"Power Match" (Severe Test) Items

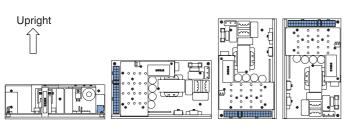
- Input voltage ON/OFF at high temp. Load ON/OFF at high temp.
- Excess Input test
- Low Input at high temp.
- Line noise test
- Vibration-Energization
- Lightning surge test
- Load ON/OFF at high temp.
 Overload at high temp.
 Over temperature test
 Electrostatic test
 Resonant vibration test
- Combined random severe test

Up to 60°C operating range regardless of installation directions

Fanless power supply needs no specific installation place or directions. Our fanless power supply gives customers the easy use under FA environment, assuring up to 60° C operating range regardless of installation directions. Also, this product has proved that it can continuously operate for 9 hours even at 90° C by "Power Match."

% In actual operation, the unit stops due to protection function, but the function was removed at the test to measure its real ability.

Installation directions



: Output connector

160mm depth to meet market requirement

Compact size with 160mm depth to respond to compact requirement for FA devices such as panel computer, DVR devices.

Our unique new circuit system, input-capacitorless system (patent pending), has made this specification come true. (PCFL series)



Blackout backup available

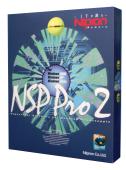
With the battery package connected, products with backup function at blackout are lined up.



Battery package: BS17A-H24/2.0L

With Windows system, loss of system data, or HDD crash in the worst case, is likely to occur when power failures such as unexpected blackout or voltage fluctuation happen.

Backing up at blackout enables system backup operation to save system data and perform even automatic shutdown of Windows when input power fails due to unexpected blackout or voltage fluctuations.



Automatic shutdown software "NSP Pro 2"

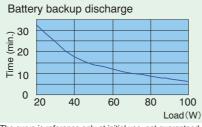
When blackout occurs, non-stop system operation is performed due to blackout confirmation timer for short period of time. For long period of blackout, Windows is shut down safely by automatic shutdown function.

Battery package to be connected is compact with 3.5 inch bay size adopting Ni-MH battery.



Battery package "BS17A-H24/2.0L"

Ni-MH battery package installable into 3.5 inch bay.



* The curve is reference only at initial use, not guaranteed

3.3V and 5V output power: *Strengthened* !

Our Fanless power supply has 3.3V and 5V strengthened ! Covering load current of 3.3V and 5V required by most FA equipments.

Madal	at natural air cooling and max. load							
Model	+24V	+3.3V	+5V	+12V	-12V	+5VSB		
PCFL-180P-X2S2	—	10A	10A	7.5A	0.3A	1.5A		
PCFL-180P-F1S	3.75A	—	10A	7.5A	0.3A	1.5A		
PCFL-180P-F2S	3.75A	10A	10A	7.5A	0.3A	1.5A		
PCFD-180P-X2S	_	10A	10A	7.5A	0.3A	1A		

Flexible to customers' demand

To respond flexibly to customers' demand:

- ① Min. load for all outputs: 0A (zero amp.) spec.
- 2 Removable output harnesses
- 3 Chopper unit for each output

Have become reality.

(1) Each output is individually controlled to have min. load of 0A. Any load combination within the output spec. is here for you without paying attention to min. load.

② Corresponding to a variety of connectors such as 20pin,24pin, peripheral and S-ATA connector.

In addition, customization of connectors and harness length to meet customer's requirement is available.

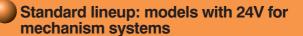


Removable output harness



③ With chopper unit for individual outputs adopted, customization of output, such as 15V output, is easily obtained.





Models with 24V equipped for mechanism systems are lined up as standard.

Customers need no preparation for 24V separately.



With +24V equipped "PCFL-180P-F1S" "PCFL-180P-F2S"

Specification summary

PCFL series

Input cable

Power cable

"WH-02VH02VH-250"

To charge/discharge connected between

Signal harness "WH-S1004-500-02"

connect to COM port of the motherboard

"WH-S0604-500": 6 pin connector type

"WH-C04PH-500": Wire cut-off type

Other harnesses below are ready:

(COM port connector type for Windows 2000 / XP / Vista): To

"WH-S1004-500-01": COM port connector type for Windows 95/98/NT

power supply and battery package.

Contact us if the cable is required.

Input vo	ltage	AC 85V to 264V							
Output v	Output voltage		+3.3V	+5V	+12V	-12V	+5VSB		
	at natural air cooling	3.75A	10A	10A	7.5A	0.3A	1.5A		
ax.	(basic structure)		total 6	al 60W					
Max. output current Power (continuous))				Max	. 90W	<u> </u>			
ontir	at natural air cooling	4.25A	10A	10A	8.5A	0.3A	1.5A		
JUOL	(with special AL		total 70W						
)) ((sr	heat sink)			Max.	102W				
	at forced air cooling*	5A	10A	10A	10A	0.3A	1.5A		
	(with external fan)	Max. 150W							
Peak ou	tput current/Power	7.5A	10A	10A	15A	0.3A	2A		
(5 sec. i	max.)	Max. 180W							
Min. loa	d current	0A	0A	0A	0A	0A	0A		
* For forc	* For forced air cooling, airflow of more than 0.5m³/min. on the component surface is required								

Dimensions (W \times H \times D) 93 \times 55 \times 160(mm)

Model	Standard	Output	voltage				
	price	+24V	+3.3V	+5VSB			
PCFL-180P-X2S2	¥13,650-	_	0	0	0	0	0
PCFL-180P-F1S	¥13,500-	0	_	0	0	0	0
PCFL-180P-F2S	¥14,300-	0	0	0	0	0	0

Connection image of optional part

PCFD-180P-X2S

Input vo	Itage	DC 20V~36V							
Output	/oltage	+3.3V	+5V	+12V	-12V	+5VSB			
ΡS	at natural air cooling	10A	10A	7.5A	0.3A	1A			
ax. owe	(basic structure)	total 60W							
Max. output current Power (continuous))				Max. 90W	1				
ontii	at natural air cooling (with special AL	10A	10A	8.5A	0.3A	1A			
nuo		total	70W						
ent` ((sr	heat sink)	Max. 102W							
	at forced air cooling*	10A	10A	10A	0.3A	1.5A			
	(with external fan)	Max. 120W							
at force	forced air cooling*		10A	15A	0.3A	1.8A			
(with ex	ternal fan)	Max. 180W							
Min. loa	d current	0A	0A	0A	0A	0A			
* For force	ed air cooling, airflow of m	ore than 0.5m ³ /min. on the component surface is required							
Dimens	ions $(W \times H \times D)$	93×55×160(mm)							
Standar	d price	¥15,000-							

% For more details of product specifications, visit our Web site below.

http://www.nipron.com

■ Main power cable ⇒ To connect to main connector of the motherboard Select from those below according to number of connector pins of the

motherboard and the length. "WH-M2022-500": 20 pin, 500mm "WH-M2022-300": 20 pin, 300mm

"WH-M2422-500": 24 pin, 500mm

 ★ Select the harness below when backup with batter package connected at blackout is required.
 "WH-M2022-500-01": 20 pin, 500mm (2 pin connector branching from to be connected to battery package).

Contact us if 24 pin type is required.

HD power cable (for peripheral devices)

 \Rightarrow To connect to peripheral devices such as HDD and FDD.

Select from those below according to the peripheral devices to connect to. "WH-PP610-850": 5 pcs. for HD, 1 pc. for FD "WH-PS610-850": 3 pcs. for HD, 2 pcs. for HD(S-ATA), 1 pc. for FD "WH-PS710-850": 2 pcs. for HD, 4 pcs. for HD(S-ATA), 1 pc. for FD

% In the case that +12V4 pin power connector is required;
 Power conversion connector from HD connector to +12V4 pin is ready.
 "WH5105": Harness length 80mm
 "WH5105-02": Harness length 320mm

Heat sink

With "AF5113-1605" for the side, or "AF5113-1609" for the bottom, output power can be increased from max. 90W to 102W.

Images

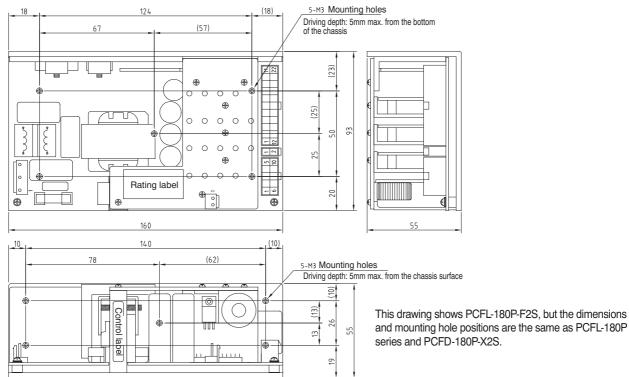




"AF5113-1605] mounted on the side

"AF5113-1609" mounted on the

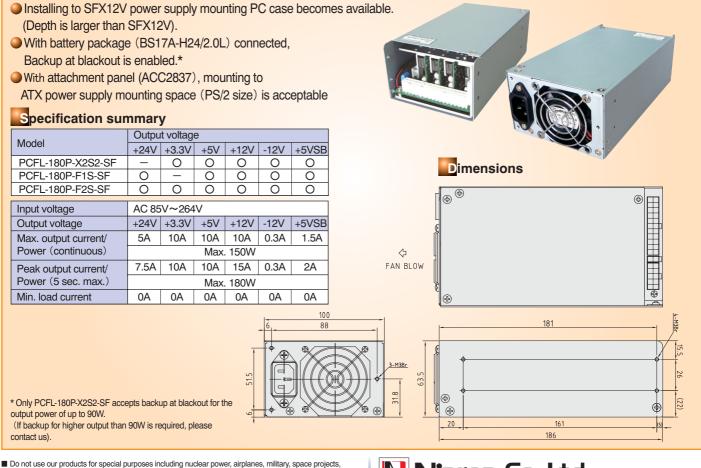
Dimensions (PCFL-180P-F2S)



Convenient for Amusement device power supply (+5V/+3.3V/+12V) Leakage current: 0.3mA max. at AC 100V input

CONTINUOUS 150W/Peak 180W SFX power supply equipped with Chassis and Fan: Coming soon! (2008 June-July)

This unit is SFX12V power supply to have PCFL series installed corresponding to SFX12V APPENDIX D size mounting space.



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When using a product, please contact us for a product specifications and make sure to check all the items for proper use.

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