



APFC OFFICE series

Standby 400/600/800VA UPS

Centralion Industrial Inc.
2014



Product Outlook

APFC Office 800



APFC Office 400/600



What is APFC?

APFC (Active Power Factor Correction) is an advanced feature on switch power supply (SPS) which leads to better energy utilization and reduces the size of power supply.

Traditional SPS



- Lower energy efficiency
- Larger rating components
- Larger size
- Lower cost



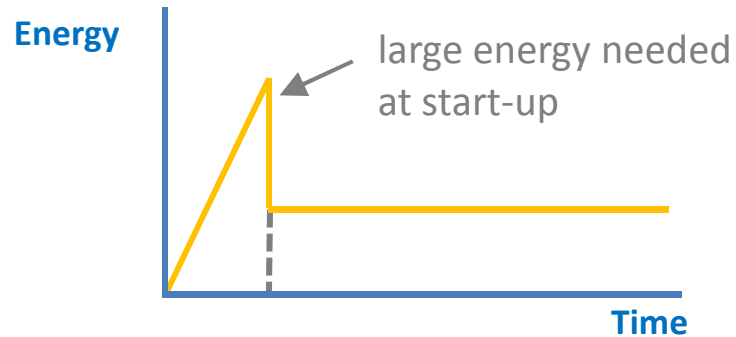
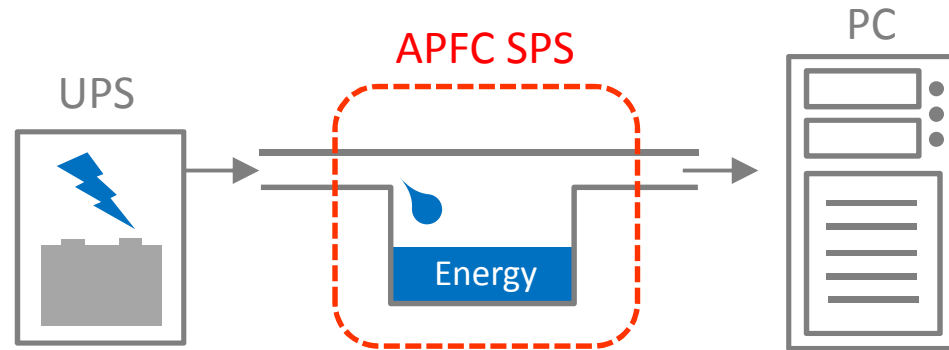
APFC SPS



- Higher energy efficiency
- Smaller rating components
- Smaller size
- Higher cost

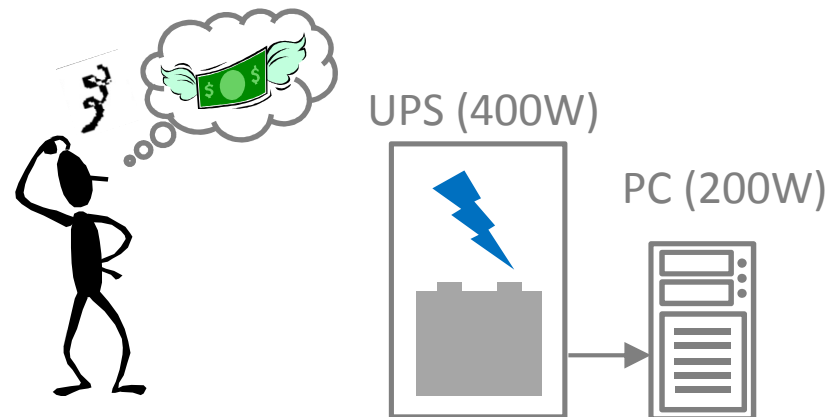
What does APFC means to UPS?

Imaging there is an energy tank inside the APFC SPS which has to be filled up first before the energy can continuous supply to PC.



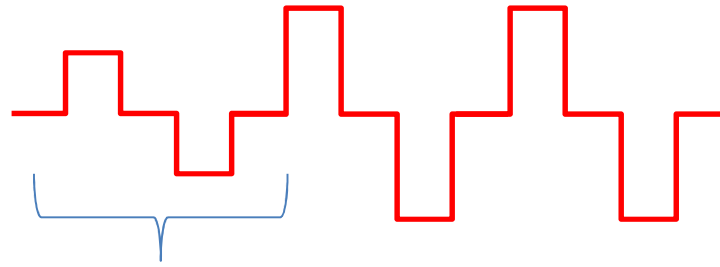
During the start-up period, APFC SPS requires large energy from UPS which can make UPS overloaded.

As a result the user has to backup the PC by UPS with **double capacity**, just to fulfill the energy need at start-up.



What does APFC OFFICE do differently to backup loads with APFC?

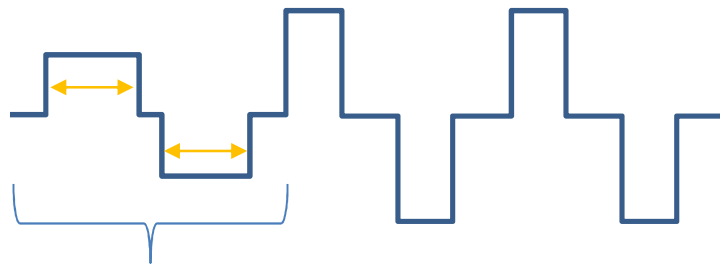
Output Voltage
(Other UPS)



During start-up, output voltage is drawn down without enough energy to loads

⇒ UPS stops with over-loading error

Output Voltage
APFC OFFICE UPS



With patented PWM control, the pulse width is purposely extended to provide more energy during start-up, without affecting the frequency

⇒ UPS works normally without over-loading error

What benefit does APFC OFFICE offer?

To backup a desktop PC with 300W APFC switching power supply

APFC Office 600
(600VA/300W)



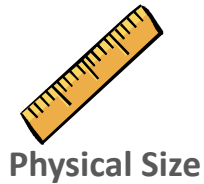
APFC power supply
100% supported

300W



300W

65% less
320x125x86mm



364x139x195mm

50% less
30Wh/hour



60Wh/hour

34% less
\$45



\$69

Line-interactive UPS
1200VA/600W

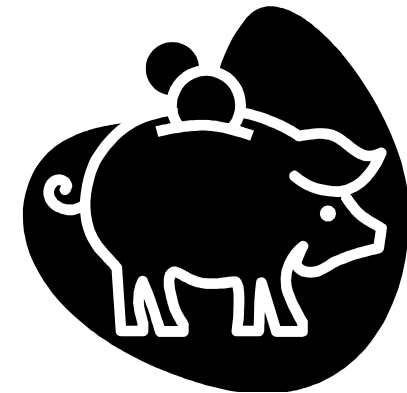


Why APFC OFFICE UPS?



No more large UPS for small PC with APFC SPS just to cover the start-up problem

Cost saving: purchase the UPS with capacity as large as the loads need



Space saving: no more bulky UPS to occupy your limited space

Specification (1/2)

MODEL		OfficePlus 400	OfficePlus 600	OfficePlus 800
CAPACITY		400VA / 200W	600VA / 300W	800VA / 420W
INPUT	Voltage	220/230/240VAC		
	Frequency	50 / 60 Hz		
	Phase	Single		
OUTPUT (Inverter Mode)	Voltage Range	220/230/240VAC		
	Frequency	50Hz or 60 Hz \pm 1Hz		
	Waveform	Modified Sinewave		
TRANSFER TIME		2-8 ms typical		
BATTERY	Battery Type	12v/4.5Ah*1	12v/5Ah*1	12V/7Ah*1
	Recharging Time	10 hours max.(Recharge to 90% Capacity)		
	Backup Time With 100W SPS load (typical)	9 minutes	17 minutes	20 minutes
DISPLAY	LED	Green/Red LED		

Specification (2/2)

MODEL		OfficePlus 400	OfficePlus 600	OfficePlus 800
AUIBLE ALARM	Battery normal	Buzzing Per 5s		
	Battery low	Buzzing Per 1s		
	Overload	Buzzing Per 0.5s		
	Fault	Continuous sounding		
PROTECTION	Typical Protection	Short Circuit / Over charge		
	Optional Protection	TVSS / Over load		
PHYSICAL	Dimension (DxWxH)	320*125*86(mm)	320*125*86(mm)	335*170*92.5(mm)
	Net Weight	3.7KG	3.7KG	5KG
	Schuko type	6 outlets (2 for surge only, 4 for battery backup)		
ENVIRONMENT	Operation Temperature	0-40°C		
	Operation Humidity	0%-85%		