



## **Inductive Voltage Regulator-APH Series**

**10kVA~400kVA**



**Professional Power Solution Provider**



ISO 9001: 2008

APH-

3

Input Phase  
3

3

Output Phase  
3

0400

Capacity  
400kVA

## Inductive Voltage Regulator-APH Series (10-75kVA)

Model		APH-330010	APH-330015	APH-330020	APH-330030	APH-330045	APH-330060	APH-330075
Capacity		10 kVA	15 kVA	20kVA	30 kVA	45 kVA	60 kVA	75 kVA
Input	Phase	3Ø3W / 3Ø4W						
	Voltage	220V / 380V						
	Voltage Range	Voltage: -13%~+17% (option:-22%~+30%)						
	Frequency	47Hz ~ 63Hz						
	Power Factor	0.95~1						
Output	Phase	3Ø3W / 3Ø4W						
	Voltage	220V / 380V, 230V / 400V, 240V / 415V (optional)						
	Accuracy	±2% (±1%~±5% optional)						
	Frequency	=Input Frequency						
	Power Factor	±0.7~1						
VA Efficiency		≥97% (Full-load)						
Dynamic Adjustment Speed		≤4V/S (Adjustable)						
Total Harmonic Distortion(THD)		≤1%						
Indicator	Voltmeter	LED digital display three-phase output voltage, accuracy ≤ ±1%						
	Ammeter	LED digital display three-phase output current, accuracy ≤ ±1%						
	Fault Condition	When abnormal, the fault code and information can be displayed						
	Indicator	Power normal/abnormal; High voltage/ low voltage; Over temperature; Automatic/manual voltage regulator status						
Protection	Over/Under Voltage	Alarm and automatic cut-off						
	Loss Phase	Alarm and automatic cut-off						
	Delay Power-off	None delay or delay power-off(5S,10S,20S)						
	Protection of Restoration	Output only after the voltage stability						
	Phase Reversed	Alarm and automatic cut-off (Optional)						
	Bypass	Can provide manual bypass switch (Optional)						
	Overload	≥110%, alarm						
	Dry Contact	Dry contact for abnormal output						
User Interface		Chose the required phase through the key, increase/decrease phase voltage manually						
Overload Capacity		125%-40min, 150%-20min, 175%-10min, 200%-5min						
Noise(1m)		≤55dB						
Cooling System		Fan cooling						
Input/Output Connection		Terminal strips						
Environment		Working Temperature: -5℃ ~ 40℃, Humidity: <95% (Non-condensing), Altitude: ≤1000m						

① Other Input Ranges are on request.

② Custom-made specifications are on request.

③ All specifications are subject to change without notice.

## Introduction of APH Series Inductive Voltage Regulator

Currently, as the economy grows very fast, the electricity consuming raises up and the shortage of power supply happens much often. The fuel crisis, energy crisis, and environment pollution come along with it. Human societies are facing more and more electric problems and difficulties. As for an enterprise, power problems always come as the first concern.

In case your device is under the conditions or impacts of over power consuming, large equipments, or electric power problems such as voltage fluctuation/spike/surge/noise, it will result in device abnormality, short device lifetime, parts damage, or even function failure.

Our Inductive Voltage Regulator - APH Series is designed for solving these problems, and offering the stable, safe, and clean power. With the innovative technology, creative design, and continuous development and research, we offer you the latest generation of Inductive Voltage Regulator - APH Series, which is very popular among our world wide customers.

### Inductive Voltage Regulator-APH Series (100-400kVA)

Model		330100	330125	330150	330200	330250	330300	330350	330400
Capacity		100kVA	125kVA	150kVA	200kVA	250kVA	300kVA	350kVA	400kVA
Circuit Type		Inductive Voltage Regulator							
Input	Phase	3Ø3W / 3Ø4W							
	Voltage Range	Voltage: -13%~+17% (option:-22%~+30%)							
	Frequency	47Hz ~ 63Hz							
Output	Phase	3Ø3W / 3Ø4W							
	Voltage	200V/208V/220V, 380V/400V/415V							
	Accuracy	±2% (±1%~±5% optional)							
	Voltage Modulation	≤4 V/S							
	Overload	125%-40min, 150%-20min, 175%-10min, 200%-5min							
	Total Harmonic Distortion	≤1% (Compared with input)							
	VA Efficiency	≥97%							
Measurement		Input Line Voltage and Frequency; Output Line Voltage, Phase Voltage, Line Current, and Frequency; VA, W, P.F.; Load Rate; Internal Temperature							
Protection	Loss Phase, Phase Reversed Protection								
	Output Over Voltage & Under Voltage Protection								
	Output Overload Protection								
	Over Temperature & Over Current								
	Redundant Circuit Control								
	Event History Inside Memory for up to 200 events								
User Interface	Operation	LCD and Push Button with Light							
	Alarm	Alarm I. Audio Alarm II. Activate							
	Communication	RS-485							
	Software	Remote Control and Monitor							
Environment	Working Temperature	-5℃~40℃							
	Storage Temperature	-30℃~50℃							
	Humidity	<95%(Non-condensing)							
	Altitude	≤1000meter							
Cooling System		Fan cooling							
Others	Noise	≤50dB		≤55dB					
	Optional	Auto transformer							
		Full time lightning and surge protection							
		Output on & off electromagnetic contactor							

❶ Other Input Ranges are on request.

❷ Custom-made specifications are on request.

❸ All specifications are subject to change without notice.

## Operating Panel Display

(10~75kVA)



(10~20kVA)



(30~75kVA)

## Operating Panel Display at Different Working Status

(100~400kVA)



Green light  
means regulator is normal

Red light  
means regulator is abnormal



When the "Green" light on the operating panel is on, it means the regulator is auto-running well and the input/output voltages are normal.  
When the "Green" light flashes, it means the device is running well by manual and input/output voltages are normal.  
When the "Red" light flashes, it means the regulator is abnormal. Please press "C" button and the abnormal message will be presented.

## Electric Features

### **STRONG, DURABLE & HIGH RELIABILITY**

No contact point;  
Capable to sustain spike, surge or impulse lash coming from Non- linear load;  
Low faulty rate;  
Long equipment life.

### **PROTECTION**

Redundant circuit control;  
Event history inside memory for up to 200 events;  
Loss phase, phase reversed protection;  
Output over voltage & under voltage protection;  
Output overload protection.

### **HIGH OVERLOAD CAPABILITY**

100% continuous load;  
200% transient current to 5 minutes;  
Maximum tolerable 500% transient start current.

### **NEW USER INTERFACE**

LCD; Blue backlight; White words;  
RS-485 communication port;  
Push buttons with light convenient to operate under dark;  
Remote signal, measurement, and control functions to monitor and control your equipments.



### **1500kVA MAX. CAPACITY PER UNIT; HIGH VOLTAGE POWER SOURCE**

Inductive Voltage Regulator is the unique type be capable to fabricate the maximum capacity up to 1500kVA per unit.

## APH Series Dimension&Weight

Capacity kVA	Machine Dimension			Packing Dimension			Weight
	Width(mm)	Depth(mm)	Height(mm)	Width(mm)	Depth(mm)	Height(mm)	Net (Kg)
10	400	550	750	550	700	1030	150
15	400	550	750	550	700	1030	160
20	400	550	750	550	700	1030	165
30	450	600	950	600	750	1250	240
45	450	600	950	600	750	1250	260
60	450	600	950	600	750	1250	280
75	450	600	950	600	750	1250	295
100	600	1160	1510	780	1300	1800	595
125	600	1160	1510	780	1300	1800	645
150	600	1160	1510	780	1300	1800	670
200	600	1160	1825	760	1350	2000	750
250	600	1160	1825	760	1350	2000	830
300	600	1160	1825	760	1350	2000	930
350	600	1160	1825	760	1350	2000	980
400	600	1160	1825	760	1350	2000	1050



## APPLICATION & SERVICE

AC Power Corp. offers products widely applied in multi-professional fields and provides the best power solutions to customers. Our mission is to satisfy customers' demand by considering the whole conditions including power environment, loading allocation, module solution alternative, thoughtful design, efficient manufacturing, and complete maintenance.

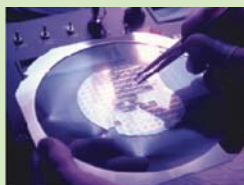
### Application



CNC Machine



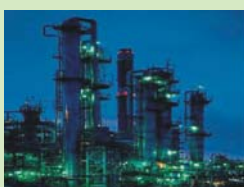
SMT Equipment



Semiconductor



Process & Control Equipment



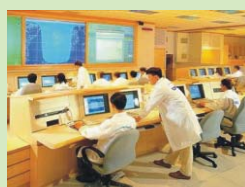
Bioscience



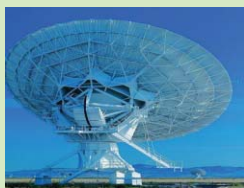
Production Line



Office IT Equipment



Control Room



Communication Equipment



Electronic & Medical Equipment



Airport Control Tower Facilities



Transport System

### Communication Systems

- ▲ TV Station
- ▲ ADSL
- ▲ Coaxial Cable TV System & Components
- ▲ Radio Communication Equipment & Systems
- ▲ Satellite & Communication Equipment
- ▲ Fiber-Optics System
- ▲ Lan Server

### IT Field

- ▲ Home Electrical Appliances
- ▲ Information Appliances
- ▲ Office IT Equipment
- ▲ POS System

### Computer & Computer Peripherals

- ▲ Electronic Data Processing (EDP) Center
- ▲ Server / Data Storage System
- ▲ Industrial PC

### General Lab

- ▲ Program Control System
- ▲ Electronic Test Equipment

### F / A

- ▲ Production Line
- ▲ IC (Integrated Circuit) Field
- ▲ CNC Machine
- ▲ SMT Equipment
- ▲ Auto-Insertion Equipment
- ▲ PCB Assembly Equipment
- ▲ Semiconductor (BGA, CSP, Flip Chip, LCD)
- ▲ Production Process and Control Equipment
- ▲ Printing Industry

### Medical & Military

- ▲ Electronic & Medical equipment
- ▲ Medical Monitoring System
- ▲ Airport X-ray Scanning equipment
- ▲ Airport Facilities
- ▲ Airport Control Tower Facilities

### Others

- ▲ Bioscience
- ▲ Gas Station
- ▲ Opto-Electronic Industry

**Preen**®

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The Power You Trust!