

APS series

1kVA~300kVA

Preen®

Intelligent Power Conditioner



APS -

3
Input Phase

3
Output Phase

060
Capacity 60kVA

G
Input Voltage

T
Output Voltage

[Input & Output Voltage please refer to Form1 at Page 5]

APS series Case Number & Size

[Unit of Measurement: mm (Width×Depth×Height)]

Note: No. 1 case height includes feet mats;Others height includes feet rounds.



Power Line Conditioner APS series-Single Phase (1kVA~100kVA)

Model		APS-11001	APS-11002	APS-11005	APS-11007	APS-11010	APS-11015	APS-11020	APS-11030	APS-11050	APS-11080	APS-11100	
Capacity		1kVA	2kVA	5kVA	7.5kVA	10kVA	15kVA	20kVA	30kVA	50kVA	80kVA	100kVA	
Input (AC)	Phase	Single Phase											
	Voltage	220V (G) ①											
	Voltage Range	±18%				±18% (±25% optional)							
	Frequency	47Hz ~ 63Hz											
	Power Factor	0.95 ~ 1											
Output (AC)	Phase	Single Phase											
	Voltage	220V (G) ①											
	Frequency	Same as input frequency.											
	Power Factor	±0.7~1											
VA Efficiency		≥98% at Full load / No load energy power consumption≤2%.											
Line Regulation		±1%~±4%				±1%~±2%							
Load Regulation		±1%~±4%				±1%~±2%							
Total Harmonic Distortion(THD)		≤1% (Additional waveform distortion)											
Response Time		≤4ms/Step											
Indicator	Voltmeter	Yes											
	Ammeter	—				Yes							
	LED	Power abnormal, output voltage overrun (high voltage/low voltage), auto bypass supply											
Protection	Over Range	Power auto shut & LED Indicator				LED Indicator							
	Over Load	No fuse breaker				150% for 15Sec.; 130% for 30Sec.; 110% for 300Sec.							
	Over/Under Voltage	Alarm & Auto shut off				Alarm (option) & Auto shut off (option)							
	Auto Bypass	LED Indicator & Alarm											
	Noise Suppressors	High energy surge absorber, LC Filter, EMI Filter (option)											
Overload Capacity		200%for 10 Sec.; 500% for 50ms											
Audible Noise (1 meter)		≤45 dB				≤50 dB				≤55 dB			
Cooling System		Natural cooling				Fan cooling							
Connections		Socket or Terminal				Terminal						Copper Busbar	
Environment	Ambient Temperature	0°C ~ 40°C											
	Humidity	0~95% Non-condensing											

Remarks: ① Other required voltage, please kindly refer to Form 1 at page 5.
 ② Weight and size vary with input and output voltage, please contact us.
 ③ Custom-made specifications are on request.
 ④ All specifications are subject to change without prior notice.



Power Line Conditioner APS series-Three Phase (10kVA~75kVA)

Model		APS-33010	APS-33015	APS-33022	APS-33030	APS-33045	APS-33060	APS-33075
Capacity		10kVA	15kVA	22kVA	30kVA	45kVA	60kVA	75kVA
Input (AC)	Phase	Three Phase						
	Voltage	220V / 380V (T) ①						
	Voltage Range	±18%			±18% (±25% optional)			
	Frequency	47Hz ~ 63Hz						
	Power Factor	0.95 ~ 1						
Output (AC)	Phase	Three Phase						
	Voltage	220V / 380V (T) ①						
	Frequency	Same as input frequency.						
	Power Factor	±0.7~1						
VA Efficiency		≥98% at Full load / No load energy power consumption ≤2%						
Line Regulation		±1%~±4%			±1%~±2%			
Load Regulation		±1%~±4%			±1%~±2%			
Total Harmonic Distortion (THD)		≤1% (Additional waveform distortion)						
Response Time		≤4ms/Step						
Indicator	Voltmeter	Show 0~300 VAC for each phase						
	Ammeter	Show R.S.T. Load's Current.						
	LED	Power abnormal, output voltage overrun (high voltage/low voltage), auto bypass supply						
Protection	Over Range	Power auto shut off (option) & LED indicator						
	Over Load	No fuse breaker			150% for 15Sec.; 130% for 30Sec.; 110% for 300Sec.			
	Auto Bypass	LED Indicator & Alarm						
	Noise Suppressors	High energy surge absorber, LC Filter, EMI Filter (option)						
	Over/Under Voltage	Alarm (option) & Auto shut off (option)						
	R.S.T. Phase Failure	LED Indicator (option) & Alarm (option) & Auto shut off (option)						
Overload Capacity		200% for 10 Sec.; 500% for 50ms						
Audible Noise (1 meter)		≤50 dB			≤55 dB			
Cooling System		Natural cooling			Fan cooling			
Connections		Terminal						
Environment	Ambient Temperature	0°C ~ 40°C						
	Humidity	0~95% Non-condensing						

Remarks: ① Other required voltage, please kindly refer to Form 1 at page 5.
 ② Weight and size vary with input and output voltage, please contact us.
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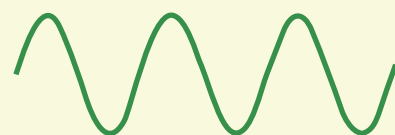
- Noises
- Undervoltages
- Highvoltages
- Power Surges
- Swell
- Interruption



Input



APS Series



Pure Power

Output



Power Line Conditioner APS series-Three Phase (100kVA-300kV A)

Model		APS-33100	APS-33120	APS-33150	APS-33180	APS-33240	APS-33300
Capacity		100kVA	120kVA	150kVA	180kVA	240kVA	300kVA
Input (AC)	Phase	Three Phase					
	Voltage	220V / 380V (T) ①					
	Voltage Range	±18% (±25% optional)					
	Frequency	47Hz ~ 63Hz					
	Power Factor	0.95 ~ 1					
Output (AC)	Phase	Three Phase					
	Voltage	220V / 380V (T) ①					
	Frequency	Same as input frequency.					
	Power Factor	±0.7~1					
VA Efficiency		≥98% at Full load / No load energy power consumption ≤2%					
Line Regulation		±1%~±2%					
Load Regulation		±1%~±2%					
Total Harmonic Distortion (THD)		≤1% (Additional waveform distortion)					
Response Time		≤4ms/Step					
Indicator	LCD	Display electrical parameters, state of the control, memories of history events, RS-485					
	LED	Power abnormal, output voltage overrun (high voltage/low voltage), auto bypass supply					
Protection	Over Range	Power auto shut off (option) & LED indicator					
	Over Load	150% for 15Sec.; 130% for 30Sec.; 110% for 300Sec.					
	Auto Bypass	LED Indicator & Alarm					
	Noise Suppressors	High energy surge absorber, LC Filter, EMI Filter (option)					
	Over/Under Voltage	Alarm & Auto shut off (option)					
	R.S.T. Phase Failure	Alarm & Auto shut off (option)					
Overload Capacity		200%for 10 Sec.; 500% for 50ms					
Audible Noise (1 meter)		≤58 dB					
Cooling System		Fan cooling					
Connections		Terminal			Copper Busbar		
Environment	Ambient Temperature	0°C ~ 40°C					
	Humidity	0~95% Non-condensing					

- Remarks: ① Other required voltage, please kindly refer to Form 1 at page 5.
 ② Weight and size vary with input and output voltage, please contact us.
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Features & Advantages

▲ 4H

HIGH Input Power Factor: ≥ 0.95 .

HIGH VA Efficiency: $\geq 98\%$ at full load.

HIGH Over Load Capacity: 300% Overload Rated.

HIGH Reliability: Microprocessor Control & Modular Design.

▲ 6L

LOW Environmental Pollution: Green Energy.

LOW Electromagnetic Wave Interference: Very suitable to communication system which must be kept away from electromagnetic interference resources.

LOW Harmonic Pollution: Low distortion and pure output sine waveform, extend equipment life.

LOW Audible Noise: $\leq 45\text{dB}$ at 1 meter.

LOW Maintenance Costs: Plug & Play Modular Design permits quick and convenient maintenance; no carbon brush needs to be replaced periodically.

LOW No Load Energy Consumption: $\leq 2\%$.

▲ CLEAN

Fit up High Energy Surge Absorbers, LC Filter, EMI Filter (option), Isolation Transformer (option), the APS provides clean and constant AC Power output. No radiated interference to electromagnetic field(EMF); No conducted interference to electrified wire fence.

▲ FAST

Fast Response Time ($\leq 4\text{ms}$. per step), sensitive voltage regulation.

▲ NEW

CE approval. New Design; New Circuits; New Patent.

▲ SAFE

Automatic Electronic Bypass Protection, Over Load Protection, Over Range Protection to let your load well protected.

▲ SAVE

Superior No Load Energy Consumption saves electric power & money; Compact Size saves your space & transportation fee.

▲ STABLE

Independent Phase Voltage Regulation. Characteristics will not be violated under 100% unbalance load.

▲ WIDE

Wide input voltage range suitable for anywhere.

Form 1: APS Input/Output Voltage Range

A	100 V	1Ø2W+G
B	110 V	
C	115 V	
D	120 V	
E	200 V	1Ø2W+G or 3Ø3W+G (Δ-connection)
F	208 V	
G	220 V	
H	230 V	
I	240 V	
J	380 V	3Ø3W+G (Δ-connection)
K	400 V	
L	415 V	
M	440 V	
N	480 V	

O	110/190 V	3Ø4W+G or 3Ø3W+N+G (Y-connection)	
P	115/200 V		
Q	120/208 V		
R	127/220 V		
T	220/380 V		
U	230/400 V		
V	240/415 V		
W	254/440 V		
X	100/200 V		1Ø3W+G
Y	110/220 V		
Z	115/230 V		

* Other Input Voltages not listed in this form are all S (Special Specification) type.

Form2: APS series-Single Phase

Model	Case Number & Weight (Kg)					
	110 V → 110V System	Weight	220 V → 220V System	Weight	220 V ↔ 110V System	Weight
APS-11001	①	9	①	10	②	30
APS-11002	①	10	①	15	②	40
APS-11005	②	20	②	25	③	70
APS-11007	③	35	③	35	④	90
APS-11010	④	40	③	40	④	110
APS-11015	④	60	③	45	④	140
APS-11020	⑤	90	④	75	⑦	180
APS-11030	⑦	250	⑦	200	⑧	280
APS-11050	—	—	⑦	270	—	—
APS-11080	—	—	⑩	390	—	—
APS-11100	—	—	⑩	430	—	—

Form3: APS series-Three Phase

Model	Case Number & Weight (Kg)					
	Δ → Δ Connection	Weight	Δ ↔ Y Connection	Weight	Y → Y Connection	Weight
APS-33010	⑥	140	⑥	160	⑤	80
APS-33015	⑥	170	⑥	180	⑤	85
APS-33022	⑥	190	⑥	200	⑤	100
APS-33030	⑥	240	⑥	230	⑤	150
APS-33045	⑨	320	⑨	400	⑤	190
APS-33060	⑨	340	⑨	450	⑦	230
APS-33075	⑨	370	⑨	580	⑦	270
APS-33100	—	—	—	—	⑪	430
APS-33120	—	—	—	—	⑪	550
APS-33150	—	—	—	—	⑪	630
APS-33180	—	—	—	—	⑫	660
APS-33240	—	—	—	—	⑫	700
APS-33300	—	—	—	—	⑫	750

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Application



Transportation System



SMT Line / IT Industry



Oil Platform



Medical Equipment



Aerospace / Defense



Control Room / Data Center



Factory



Home Appliances

Industry Field

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

Computer & Peripherals

- Industrial PC
- Control room
- CAD / CAM / CAE Workstation
- Server / Data Storage System
- Electronic Data Processing (EDP) Center

Communication Systems

- Fiber-Optics System
- Coaxial Cable TV System & Components
- TV Station
- Lan Server
- Radio Communication Equipment & Systems
- ADSL
- Satellite & Communication Equipment
- Wireless/mobile communication base station
- Computer room equipment

IT Field

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

Others

- Electronic & Medical equipment
- Medical Monitoring System
- Airport X-ray Scanning equipment
- Airport Facilities
- Airport Control Tower Facilities
- Bioscience
- Gas Station
- Opto-Electronic Industry
- Program Control System
- Electronic Test Equipment

AC POWER CORP.

Specialized in power electronics, Preen (AC Power Corp.) has been developing products based on its core technology of Power Conversion. Product Line includes AC Power Sources, DC Power Supplies, Power Supplies for Defense Industry, Renewable Energy Simulators, Line Conditioners and UPS. Boasting one of the broadest product line in the industries, Preen specializes in High Power Source and has developed AC power source up to 2MVA with high power density.

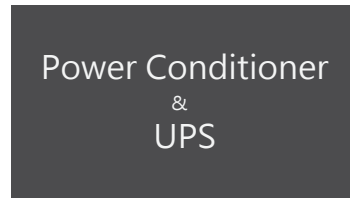
Product Lines



- Up to 1000Hz
- 500VA ~ 2,000kVA
- Regenerative Function



- Up to 2,000V
- 2kW ~ 300kW
- Fast Response & Low Ripple



- Solid State & Inductive types
- Up to 1500kVA

Applications



Renewable Energy



Laboratory



Aircraft Manufacturing



Transport System



EMC Chamber



Medical Equipment



Control Room/ Data Center



Electronics



ATE System



Airport Apron / Hangar



Home Appliance



Motor / Engine



Communication Equipment



Military Aircraft / Helicopter



Navy System



Defense Equipment

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