

# APS Series

CE



Output Power  
**1kVA~300kVA**

## Applications

- Home Appliance
- Laboratory/Certification Bureau
- Industrial Power Supply
- IT / SMT Production Line
- Medical Industry
- Transportation
- Communication Industry

## APS Series

# Solid State Power Conditioner

Preen's APS series is a solid state power conditioner with high precision and fast response time. Applying electronic compensation design topology, the APS series can detect fluctuation on input voltage and compensate to provide pure and stable voltage.

Applications include mobile / laptop SMT production lines, medical equipment, communication equipment, telecom stations, EMC test and laboratory.

The APS series has single-phase and three-phase models with power level up to 300kVA and input voltage range of  $\pm 18\%$  or  $\pm 25\%$ (option). The 2% voltage regulation makes it ideal for applications requiring accurate and stable input.

- Wide input voltage range : rated voltage  $\pm 18\% \sim \pm 25\%$ .
- Optional EMI filter for better power quality.
- CE mark with high electromagnetic compatibility performance.
- High input power factor:  $\geq 0.95$ .
- High efficiency: up to 98% at full load.
- Customized outdoor cabinet available to increase protection class to IP54.
- Comprehensive protection includes over voltage, over current, over load, input under voltage and over temperature.
- Optional surge protection with different levels.

## SPECIFICATIONS

### APS Series Single-Phase Output (1kVA - 15kVA)

Model	APS-11001	APS-11002	APS-11003	APS-11005	APS-11007	APS-11010	APS-11015
Capacity	1kVA	2kVA	3kVA	5kVA	7.5kVA	10kVA	15kVA
<b>AC INPUT</b>							
Phase	Single Phase						
Voltage <sup>*1</sup>	220V						
Voltage Range	Standard : ±18%			Standard : ±18 % Option : ± 25 %			
Frequency	47Hz ~ 63Hz						
Power Factor	0.95 ~ 1						
<b>AC OUTPUT</b>							
Phase	Single Phase						
Voltage <sup>*2</sup>	220V ( G )						
Frequency	Same as input frequency.						
Power Factor	±0.7~1						
<b>METER &amp; INDICATOR</b>							
Voltage Meter	Yes						
Current Meter	-			Yes			
LED Indicator	Power abnormal, output over/under voltage , auto bypass						
<b>PROTECTION</b>							
Over Range	Auto Shutdown & LED Indicator			LED Indicator			
Over Load	Circuit Breaker			150% for 15 Sec.; 130% for 30 Sec.; 110% for 300 Sec.			
Over/Under Voltage	Alarm & Auto Shutdown			Alarm & Auto Shutdown (option)			
Auto Bypass	LED Indicator & Alarm						
Noise Filter	Surge Absorber, LC Filter, EMI Filter (option)			Surge Absorber, LC Filter (option), EMI Filter (option)			
<b>GENERAL</b>							
VA Efficiency	≥ 98% at Full load / No load energy power consumption ≤ 2%.						
Line Regulation	±2%~ ±4%			±2%			
Load Regulation	±2%~ ±4%			±2%			
Total Harmonic Distortion(THD)	≤ 1%(Additional waveform distortion)						
Audible Noise (1 meter)	≤ 45 dB			≤ 50 dB			
Cooling System	Natural cooling			Fan cooling			
Connections	Socket or Terminal			Terminal			
<b>ENVIRONMENT</b>							
Operational Temperature	0° C~ 40° C						
Humidity	0~95% ( Non-condensing )						
Dimension(H x W x D)	220 x 120 x 360mm		310 x 170 x 400mm		380 x 200 x 550mm		
	8.66 x 4.72 x 14.17inch		12.20 x 6.69 x 15.74inch		14.96 x 7.87 x 21.65inch		
Weight	10kg	15kg	20kg	25kg	35kg	40kg	45kg
	22.04lbs	33.06lbs	44.09lbs	55.11lbs	77.16lbs	88.18lbs	99.2lbs

\*1 Weight and size vary with input and output voltage, please contact us.

\*2 Custom-made specifications are on request.

\*All specifications are subject to change without prior notice.

## SPECIFICATIONS

### APS Series Single-Phase Output (20kVA - 100kVA)

Model	APS-11020	APS-11030	APS-11040	APS-11050	APS-11060	APS-11080	APS-11100
Capacity	20kVA	30kVA	40kVA	50kVA	60kVA	80kVA	100kVA
<b>AC INPUT</b>							
Phase	Single Phase						
Voltage <sup>*1</sup>	220V <sup>*1</sup>						
Voltage Range	Standard : ±18 % Option : ± 25 %						
Frequency	47Hz ~ 63Hz						
Power Factor	0.95 ~ 1						
<b>AC OUTPUT</b>							
Phase	Single Phase						
Voltage <sup>*2</sup>	220V ( G ) <sup>*1</sup>						
Frequency	Same as input frequency.						
Power Factor	±0.7~1						
<b>METER &amp; INDICATOR</b>							
Voltage Meter	Yes						
Current Meter	Yes						
LED Indicator	Power abnormal, output over/under voltage , auto bypass						
<b>PROTECTION</b>							
Over Range	LED Indicator						
Over Load	150% for 15Sec.; 130% for 30Sec.; 110% for 300Sec.						
Over/Under Voltage	Alarm and Auto Shutdown (option)						
Auto Bypass	LED Indicator & Alarm						
Noise Filter	Surge Absorber, LC Filter (option), EMI Filter (option)						
<b>GENERAL</b>							
Efficiency	≥ 98% at Full load / energy power consumption ≤ 2% under no load						
Line Regulation	±2%						
Load Regulation	±2%						
Total Harmonic Distortion(THD)	≤ 1%(Additional waveform distortion)						
Audible Noise (1 meter)	≤ 50 dB			≤ 55 dB			
Cooling System	Fan cooling						
Connections	Terminal				Busbar		
<b>ENVIRONMENT</b>							
Operational Temperature	0 ° C ~ 40° C						
Humidity	0~95% ( Non-condensing )						
Dimension(H x W x D)	605 x 330 x 550mm		860 x 450 x 800mm		960 x 600 x 900mm		
	23.81 x 12.99 x 21.65inch		33.85 x 17.71 x 31.49 inch		37.79 x 23.62 x 35.43inch		
Weight	75kg	120kg	230kg	270kg	350kg	390kg	430kg
	165.34lbs	264.55lbs	507.06lbs	595.24lbs	771.61lbs	859.80lbs	947.98lbs

\*1 Weight and size vary with input and output voltage, please contact us.

\*2 Custom-made specifications are on request.

\*All specifications are subject to change without prior notice.

## SPECIFICATIONS

### APS Series Three-Phase Output ( 10kVA-100kVA )

Model	APS-33010	APS-33015	APS-33022	APS-33030	APS-33045	APS-33060	APS-33075	APS-33100
Capacity	10kVA	15kVA	22kVA	30kVA	45kVA	60kVA	75kVA	100kVA
<b>AC INPUT</b>								
Phase	Three Phase							
Voltage <sup>*1</sup>	220V / 380 ( T )							
Voltage Range	Standard : ±18 %		Standard : ±18 % Option : ± 25 %					
Frequency	47Hz ~ 63Hz							
Power Factor	0.95 ~ 1							
<b>AC OUTPUT</b>								
Phase	Three Phase							
Voltage <sup>*2</sup>	220V / 380 ( G )							
Frequency	Same as input frequency.							
Power Factor	±0.7~1							
<b>METER &amp; INDICATOR</b>								
Voltage Meter	Yes, range: 0~300 VAC for each phase							
Current Meter	Yes, with R/S/T phase current							
LED Indicator	Power abnormal, output over/under voltage , auto bypass							
<b>PROTECTION</b>								
Over Range	Power auto shutdown (option) & LED indicator							
Over Load	Circuit Breaker	150% for 15Sec; 130% for 30Sec; 110% for 300Sec.						
Over/Under Voltage	Alarm & Auto Shutdown (option)							
Auto Bypass	LED Indicator & Alarm							
R.S.T. Phase Failure	LED Indicator (option) & Alarm (option) & Auto Shutdown (option)							
Noise Filter	Surge Absorber, LC Filter(option), EMI Filter (option)							
<b>GENERAL</b>								
Efficiency	≥ 98% at Full load / energy power consumption ≤ 2% under no load							
Line Regulation	±2%~ ±4%		±2%					
Load Regulation	±2%~ ±4%		±2%					
Total Harmonic Distortion(THD)	≤ 1%(Additional waveform distortion)							
Audible Noise (1 meter)	≤ 50 dB				≤ 55 dB			
Cooling System	Natural cooling			Fan cooling				
Connections	Terminal							
<b>ENVIRONMENT</b>								
Operational Temperature	0 ° C~ 40° C							
Humidity	0~95% ( Non-condensing )							
Dimension(H x W x D)	770 x 355 x 650mm				860 x 450 x 800mm			
	30.31 x 13.97 x 25.59inch				33.85 x 17.71 x 31.49inch			
Weight	80kg	85kg	100kg	150kg	190kg	230kg	270kg	360kg
	176.3lbs	187.3lbs	220.4lbs	330.6lbs	418.8lbs	507lbs	595.2lbs	792lbs

\*1 Weight and size vary with input and output voltage, please contact us.

\*2 Custom-made specifications are on request.

\*All specifications are subject to change without prior notice.

## SPECIFICATIONS

### APS Series Three-Phase Output ( 120kVA-300kVA )

Model	APS-33120	APS-33150	APS-33180	APS-33240	APS-33300
Capacity	120kVA	150kVA	180kVA	240kVA	300kVA
<b>AC INPUT</b>					
Phase	Three Phase				
Voltage <sup>*1</sup>	220V / 380 ( G )				
Voltage Range	Standard : ±18 % Option : ± 25 %				
Frequency	47Hz ~ 63Hz				
Power Factor	0.95 ~ 1				
<b>AC OUTPUT</b>					
Phase	Three Phase				
Voltage <sup>*2</sup>	220V / 380 ( G )				
Frequency	Same as input frequency.				
Power Factor	±0.7~1				
<b>METER &amp; INDICATOR</b>					
Voltage Meter	Yes, range: 0~300 VAC for each phase				
Current Meter	Yes, with R/S/T phase current				
LED Indicator	Power abnormal, output over/under voltage , auto bypass				
<b>PROTECTION</b>					
Over Range	Power auto shut off (option) & LED indicator				
Over Load	150% for 15Sec.; 130% for 30Sec.; 110% for 300Sec.				
Over/Under Voltage	Alarm & Auto shutdown (option)				
Auto Bypass	LED Indicator & Alarm				
R.S.T. Phase Failure	Alarm & Auto shutdown (option)				
Noise Filter	Surge Absorber, LC Filter, EMI Filter (option)				
<b>GENERAL</b>					
Efficiency	≥ 98% at Full load / energy power consumption ≤ 2% under no load				
Line Regulation	±2%				
Load Regulation	±2%				
Total Harmonic Distortion(THD)	≤ 1%(Additional waveform distortion)				
Audible Noise (1 meter)	≤ 55 dB				
Cooling System	Fan cooling				
Connections	Terminal		Busbar		
<b>ENVIRONMENT</b>					
Operational Temperature	0 ° C ~ 40° C				
Humidity	0~95% ( Non-condensing )				
Dimension(H x W x D)	1500 x 600 x 1200mm		1700 x 800 x 1200mm		
	59.05 x 23.62 x 47.24inch		66.92 x 31.49 x 47.24 inch		
Weight	550kg	630kg	660kg	700kg	750kg
	1210lbs	1386lbs	1452lbs	1540lbs	1650lbs

\*1 Weight and size vary with input and output voltage, please contact us.

\*2 Custom-made specifications are on request.

\*All specifications are subject to change without prior notice.

## SPECIFICATIONS

## APS Series Single-Phase Output (1kVA - 100kVA)

Model Number	Discription
APS-11001	Solid State Power Conditioner ( 1 kVA)
APS-11002	Solid State Power Conditioner ( 2 kVA)
APS-11003	Solid State Power Conditioner ( 3 kVA)
APS-11005	Solid State Power Conditioner ( 5 kVA)
APS-11007	Solid State Power Conditioner ( 7 kVA)
APS-11010	Solid State Power Conditioner ( 10 kVA)
APS-11015	Solid State Power Conditioner ( 15 kVA)
APS-11020	Solid State Power Conditioner ( 20 kVA)
APS-11030	Solid State Power Conditioner ( 30 kVA)
APS-11040	Solid State Power Conditioner ( 40 kVA)
APS-11050	Solid State Power Conditioner ( 50 kVA)
APS-11060	Solid State Power Conditioner ( 60 kVA)
APS-11080	Solid State Power Conditioner ( 80 kVA)
APS-11100	Solid State Power Conditioner ( 100 kVA)

## APS Series Three-Phase Output (10kVA - 300kVA)

Model Number	Discription
APS-33010	Solid State Power Conditioner ( 10 kVA)
APS-33015	Solid State Power Conditioner ( 15 kVA)
APS-33022	Solid State Power Conditioner ( 22 kVA)
APS-33030	Solid State Power Conditioner ( 30 kVA)
APS-33045	Solid State Power Conditioner ( 45 kVA)
APS-33060	Solid State Power Conditioner ( 60 kVA)
APS-33075	Solid State Power Conditioner ( 75 kVA)
APS-33100	Solid State Power Conditioner ( 100 kVA)
APS-33120	Solid State Power Conditioner ( 120 kVA)
APS-33150	Solid State Power Conditioner ( 150 kVA)
APS-33180	Solid State Power Conditioner ( 180 kVA)
APS-33240	Solid State Power Conditioner ( 240 kVA)
APS-33300	Solid State Power Conditioner ( 300 kVA)