



EA-SVC

1KVA ~ 30KVA



EA-SVC series high precision auto voltage regulator power supply mainly consists of contact auto-transformer, servo motor and automatic control circuit. When grid voltage is unstable or load varies, automatic control circuit drives the servo motor in compliance with variety of output voltage, adjusts carbon brush position on the contact auto-transformer, makes output voltage adjusted to be rated value and reaches a steady state. EA-SVC series products introduce advanced technology, adopt energy-saving ring transformer and use integrated circuit and high quality components, which make them featured with small footprint, light weight, high-efficiency and energy-saving, no additional distortion of output waveform, stable performance and reliability.

Features

- High adaptability to all kinds of non-linear load such as inductive load and capacitive load
- High power density, high cost-effective, wide application
- Ring transformer structure, small footprint, minimum magnetic leakage, low noise
- Multilayer structure carbon brush with long service time and convenient daily maintenance



Specifications

MODEL	Single Phase							
Capacity	1 KVA	2 KVA	3 KVA	5 KVA	10 KVA	15 KVA	20 KVA	30 KVA
AC INPUT								
Voltage range	160 V ~ 255 V							
Frequency range	50 / 60 Hz							
Phase	Single phase + N + G							
AC OUTPUT								
Voltage	220 V / 230V { 110 V output is available for 5KVA below }							
Voltage regulation accuracy	≤ ± 3%							
Waveform	Sinusoidal							
Efficiency	≥ 96%							
Power factor	0.8							
Distortion	No additional waveform distortion							
Response time	± 10% varies < 1 s							
Overvoltage protection	Output phase voltage 250 V ± 5 V							
Undervoltage	Output phase voltage 183 V ± 5 V							
Other protections	Start-up delay – mechanical failure – overcurrent – short-circuit – overtemperature							
Insulation resistance	≥ 2M Ω							
Dielectric intensity	Input and output to earth at 50 Hz, 2000 V AC voltage for 1min, there is no breakdown or flashover, leakage current is less than 10 mA or at 2800 V DC voltage for 1min, no breakdown or flashover, leakage current is less than 1 mA							
OTHERS								
Ambient temperature	0°C ~ + 40°C							
Altitude	Less than 1000 m							
Relative humidity	0% ~ 95% (non-condensing)							
Dimensions (W x D x H) (mm)	176 x 190 x 146	265 x 240 x 205	325 x 240 x 275	412 x 244 x 372	400 x 345 x 665	400 x 345 x 770	440 x 385 x 810	
Weight (kg)	5.0	8.5	12.5	15	24	43	55	91

MODEL	Three Phase			
Capacity	10 KVA	15 KVA	20 KVA	30 KVA
AC INPUT				
Voltage range	277 V ~ 433 V			
Frequency range	50 / 60 Hz			
Phase	Three phase + N + G			
AC OUTPUT				
Voltage	380 V / 400V			
Voltage regulation accuracy	≤ ± 3%			
Waveform	Sinusoidal			
Efficiency	≥ 96%			
Power factor	0.8			
Distortion	No additional waveform distortion			
Response time	± 10% varies < 1 s			
Overvoltage protection	Output phase voltage 433 V ± 5 V			
Undervoltage	Output phase voltage 316 V ± 5 V			
Other protections	Start-up delay – mechanical failure – overcurrent – short-circuit – phase order (three phase) – lack-phase (three phase) – overtemperature			
Insulation resistance	≥ 2M Ω			
Dielectric intensity	Input and output to earth at 50 Hz, 2000 V AC voltage for 1min, there is no breakdown or flashover, leakage current is less than 10 mA or at 2800 V DC voltage for 1min, no breakdown or flashover, leakage current is less than 1 mA			
OTHERS				
Ambient temperature	0°C ~ + 40°C			
Altitude	Less than 1000 m			
Relative humidity	0% ~ 95% (non-condensing)			
Dimensions (W × D × H) (mm)	350 × 320 × 775		400 × 345 × 815	435 × 465 × 900
Weight (kg)	35	45	59	78

- All specifications subject to change without notice.
- Custom-made specifications are acceptable.