

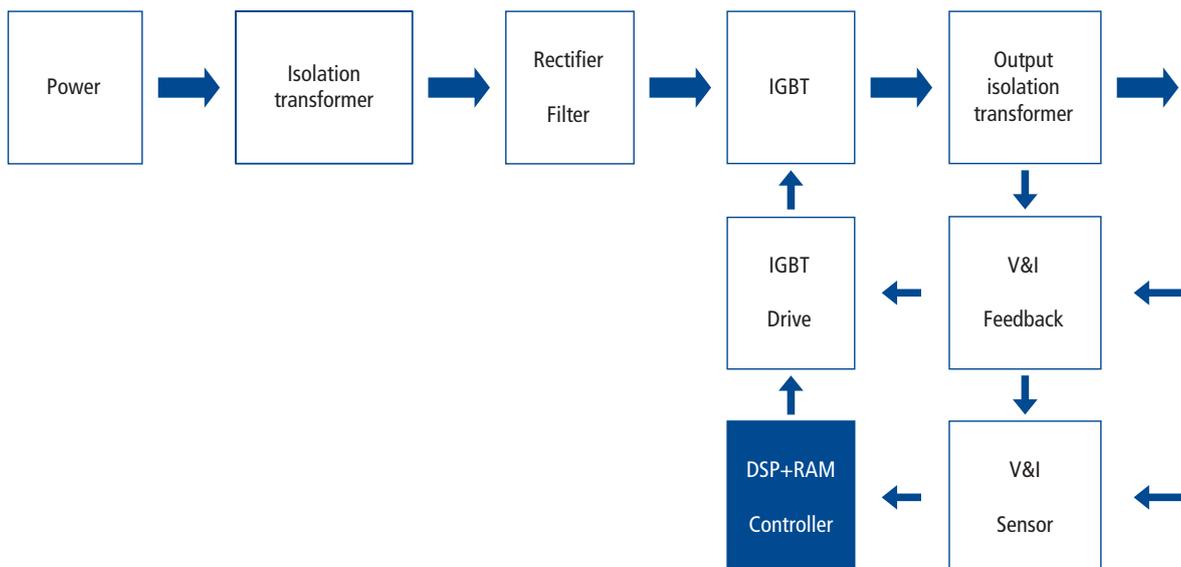
## EAC-SM – Programmable AC Power Supply 3 – 1000 kVA



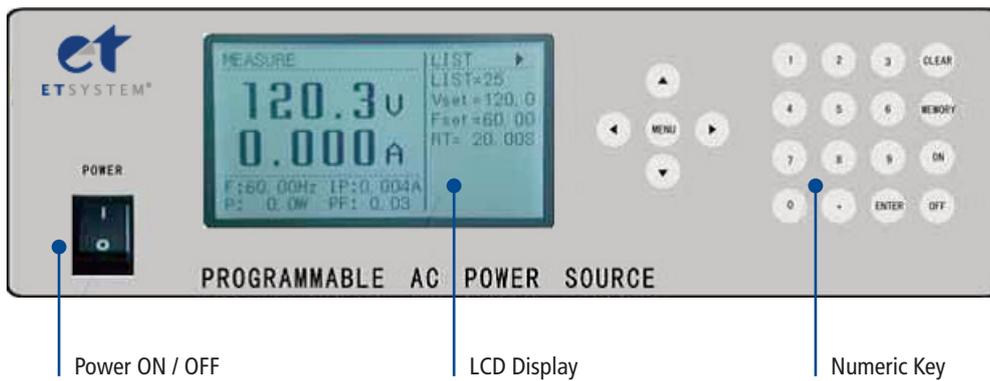
### KEY FEATURES

- Advance PWM technology to delivery high power out on less space
- Direct Digital Synthesis (DDS) waveform generation
- One key recall for 9 different voltage and frequency
- Interface Standard RS232 (Option GPIB and RS485)
- Precise high speed of the output for RMS Voltage, RMS Current, True power, Frequency, Power factor, Current crest factor etc.
- Overload capability, 110 % load 15 minutes, 125 % 10 minutes, 150 % 1 minute
- 100 % load and unload, the regulated voltage response within 2 seconds
- Numeric key for data setting

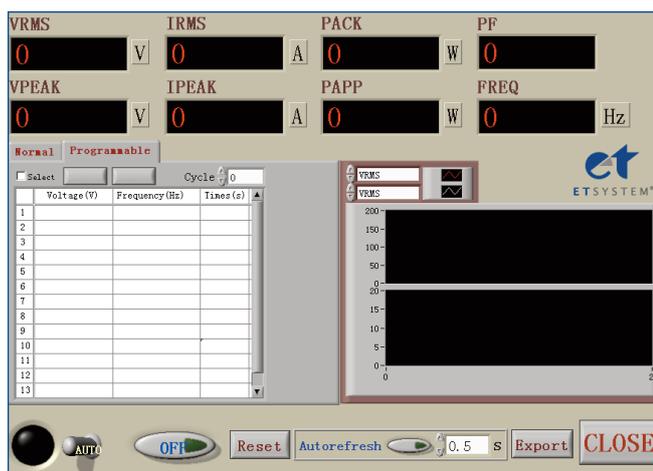
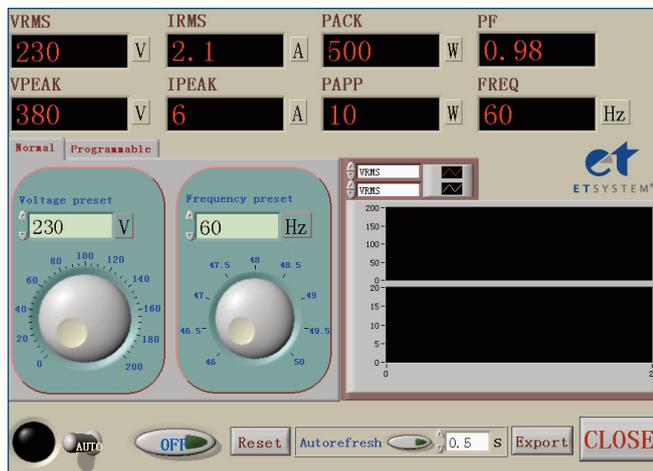
### SCHEMATICS



## OPERATION PANEL



## SOFTWARE



## EAC-SM SINGLE PHASE SERIES DATASHEET

Model EAC-SM	3	5	10	15	20	30	50	100	150
Capacity	3 kVA	5 kVA	10 kVA	15 kVA	20 kVA	30 kVA	50 kVA	100 kVA	150 kVA
Working	SPWM								
<b>INPUT</b>									
Phase	1 $\phi$ 2 W				3 $\phi$ 4 W				
Voltage	230 V $\pm$ 15 %				400 V $\pm$ 15 %				
Frequency	47 Hz – 63 Hz								
Efficiency	90 %								
<b>OUTPUT</b>									
Phase	1 $\phi$ 2 W								
Voltage	Low 0 – 150.0 VAC / High 0 – 300.0 VAC AUTO								
Max. current L=@120 V	25 A	42 A	84 A	125 A	168 A	250 A	420 A	840 A	1250 A
Max. current H=@240 V	12.5 A	21 A	42 A	62.5 A	84 A	125 A	210 A	420 A	625 A
Frequency	45.00 – 120.0 Hz (40.00 – 500.0 Hz, 10.00 – 1000 Hz customized)								
LCD Display	Vrms, Arms, Fre, Wattage, PF, AP								
Linear Regulation	0.1 %								
Load Regulation	1 %								
T.H.D	2 % (resistive load)								
Power factor	$\geq$ 0,8								
Crest Factor	3:1								
Stability time	2 ms								
Frequency regulation	0.01 %								
Voltage resolution	0.1 V								
Frequency resolution	<100 Hz 0.01 Step, >100 Hz 0.1 Step								
Power resolution	0.1 W				1 W				
Current resolution	0.001 A			0.01 A					1 A
<b>Measurement accuracy</b>									
Voltage	0.5 % FS+5 dgt.								
Current	0.5 % FS+5 dgt.								
Wattage	0.5 % FS+5 dgt.								
Frequency	0.01 % FS+5 dgt.								
<b>Setting accuracy</b>									
Voltage	0.2 % FS								
Frequency	0.1 % FS								
Memory	9 groups in total, each group can memory voltage and frequency								
Programmable	30 groups in total, each group can perform voltage, frequency, rise time, running time								
Interface	RS232 (RS485 und GPIB optional)								
I-LIM Set	0 – Max current								
Input terminal	Terminal block								
Output terminal	Terminal block								
Protection	Over Current, over temp, over load, short circuit								
Cooling	Cooling fan								
Weight (Kg)	30	50	80	120	150	250	400	600	6800
Dimension mm (WHD)	430x177x460		430x765x550			800x1550x650	700x1350x1400		900x1730x1610
Temperature	0 – 40°C								
Humidity	10 – 90 % non-condensing								
Protection	IP 20								

## EAC-SM THREE PHASE SERIES DATASHEET

Model EAC-3SM	6	9	12	15	20	30	60	100	150	300	450	1000	
Capacity	6 kVA	9 kVA	12 kVA	15 kVA	20 kVA	30 kVA	60 kVA	100 kVA	150 kVA	300 kVA	450 kVA	1000 kVA	
Working	SPWM												
<b>INPUT</b>													
Phase	1φ 2 W						3φ 4 W						
Voltage	230 V±15 %						400 V±15 %						
Frequency	47 Hz – 63 Hz												
Efficiency	90 %												
<b>OUTPUT</b>													
Phase	3φ 4 W												
Voltage	Low 0 – 150.0 VAC / High 0 – 300.0 VAC AUTO												
Max. current L=@ 120V	16.8 A	25 A	33 A	42 A	56 A	84 A	168 A	278 A	420 A	840 A	1250 A	2400 A	
Max. current H=@ 240V	8.4 A	12.5 A	16.5 A	21 A	28 A	42 A	84 A	139 A	210 A	420 A	625 A	1200 A	
Frequency	45.00 – 120.0 Hz (40.00 – 500.0 Hz, 10.00 – 1000 Hz customized)												
LCD Display	Vrms, Arms, Fre, Wattage, PF, AP												
Linear regulation	0.1 %												
Load regulation	1 %												
T.H.D	2 % (resistive load)												
Power factor	≥ 0,8												
Crest factor	3:1												
Stability time	2 ms												
Frequency regulation	0.01 %												
Voltage resolution	0.1 V												
Frequency resolution	<100 Hz 0.01 Step, >100 Hz 0.1 Step												
Power resolution	1 W												
Current resolution	0.01 A				0.1 A				1 A				
<b>Measurement accuracy</b>													
Voltage	0.5 % FS+5 dgt.												
Current	0.5 % FS+5 dgt.												
Wattage	0.5 % FS+5 dgt.												
Frequency	0.01 % FS+5 dgt.												
<b>Setting accuracy</b>													
Voltage	0.2 % FS												
Frequency	0.1 % FS												
Memory	9 groups in total, each group can memory voltage and frequency												
Programmable	30 groups in total, each group can perform voltage, frequency, rise time, running time												
Interface	RS232 (RS485 und GPIB optional)												
I-LIM Set	0 – Max current												
Input	Terminal block												
Output	Terminal block												
Protection	Over Current, over temp, over load, short circuit												
Cooling	Cooling fan												
Weight (Kg)	75	90	120	150	200	300	500	900	1200	2000	3000		
Dimension (WHD)	430×800×700				610×1030×1050			700×1350×1400		900×1730×1610		900×1730×1610	
Temperature	0 – 40°C												
Humidity	10 – 90 % non-condensing												
Protection	IP 20												

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