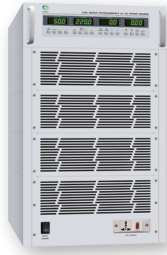


## 6300 Series High Power Programmable 3 Phase AC Power Source



The 6300 series high power programmable tri-phase AC power source features up to 150kVA output. With pulse-width-modulation switching design, it consumes less power and optimizes space efficiency. The 6300 series is best solution for industrial high power motor, air conditioning system, and electrical charging station.

### Key Highlight

- Built-in passive power factor correction (PF>0.95) for energy saving.
- The rapid transient reaction allows the waveforms to be restored within 2ms.
- Full range adjustable frequencies 45-500Hz (optional) , 360-440Hz (optional) or 760-840Hz (optional).
- Ramp-up and Ramp-down function.
- Output 350V voltage, convenient to powering up electric motors (optional).

### Protection



Over Current Protection



Over Voltage Protection



Over Power Protection



Over Temperature Protection



Short Current Circuit



Reverse Current Protection (optional)

### Safety and Productivity Features



OC Fold



V Sense (optional)

### Available Interface



USB



RS-232



ANALOG (optional)



GPIB (optional)

	AC Output	Programmable	3-phase Input	Power Factor Correction circuit	1 $\phi$ 3W Output	3-phase Output	350V Output	600V Output
6310	✓	✓	✓	Optional	Optional	✓	Optional	Optional
6315	✓	✓	✓	Optional	Optional	✓	Optional	Optional
6330	✓	✓	✓	Optional	Optional	✓	Optional	Optional
6360	✓	✓	✓	Optional	Optional	✓	Optional	Optional
6390	✓	✓	✓	Optional	Optional	✓	Optional	Optional
63120	✓	✓	✓	Optional	Optional	✓	Optional	Optional
63150	✓	✓	✓	Optional	Optional	✓	Optional	Optional

6300 Series Specifications (<100kVA)						
MODEL	6310	6315	6330	6360	6390	
<b>AC OUTPUT</b>						
Phase	3Ø					
Power Rating	1Ø	3.33kVA	5kVA	10kVA	20kVA	30kVA
	Total	9.99kVA	15kVA	30kVA	60kVA	90kVA
Power Rating (Optional 1Ø3W)	1Ø	3.33kVA	5kVA	10kVA	20kVA	30kVA
	Total	6.66kVA	10kVA	20kVA	40kVA	60kVA
Voltage <sup>1</sup>	Range	0 - 150V/0 - 300V or 0 - 175V/0 - 350V Selectable (Optional 0 - 350V) or 0 - 300V/0 - 600V Selectable (Optional 0 - 600V)				
	Resolution	0.1V				
	Accuracy	±(1% of setting + 2 counts)				
Max. Current (r.m.s) <sup>2</sup> - 1Ø	0 - 150V	28.0A	42.0A	84.0A	168.0A	252.0A
	0 - 300V	14.0A	21.0A	42.0A	84.0A	126.0A
Max. Current (r.m.s) <sup>3</sup> for Optional 0 - 350V - 1Ø	0 - 175V	24.0A	36.0A	72.0A	144.0A	216.0A
	0 - 350V	12.0A	18.0A	36.0A	72.0A	108.0A
Max. Current (r.m.s) <sup>4</sup> for Optional 0 - 600V - 1Ø	0 - 300V	14.0A	21.0A	42.0A	84.0A	126.0A
	0 - 600V	7.0A	10.5A	21.0A	42.0A	63.0A
Frequency <sup>5</sup>	Range	45.0 - 70.0Hz/45.0 - 500.0Hz (Optional 45 - 500Hz)/360 - 440 (Optional 400Hz) /760 - 840Hz (Optional 800Hz) Full Range Adjust				
	Resolution	0.1/1Hz				
	Accuracy	± 0.02% of setting				
Total Harmonic Distortion (THD) <sup>6</sup>	< 1% for 110/220V, 50/60Hz for 300V and Optional 350V at Resistive Load < 1.2% for 220/440V, 50/60Hz for Optional 600V at Resistive Load					
Inrush Current	3 times rated Current (r.m.s)					
Crest Factor	3 times rated Current (r.m.s)					
Line Regulation	± 0.1V					
Load Regulation	L - N : ±(0.5% of output + 0.5V)/L - L : ±(1% of output + 1V) at Resistive Load					
Deviation of phase angle	120° ≤ ± 1° at Load Balance, 120° ≤ ± 2.5° at 100% Load Unbalance					
Ramp up / Ramp down	Range	0.1 - 999.9s				
	Resolution	0.1s				
	Accuracy	± (0.1% of setting + 0.2s)				
<b>INPUT</b>						
Phase	3Ø4W					
Voltage	220 (L - N)/380Vac (L - L) ±10%					
Max. Current <sup>7</sup>	25A	40A	75A	150A	230A	
Frequency	47 - 63Hz					
Power Factor	0.8					
<b>MEASUREMENT</b>						
Voltage	L - N Range	0.0 - 300.0V/0.0 - 600.0V				
	L - L Range	0.0 - 520.0V/0.0 - 1040V				
	Resolution	0.1/0.2V				
	Accuracy	±(1% of reading + 2 counts) at Voltage > 5V				

MODEL		6310	6315	6330	6360	6390
Current	Range	L	0.000 - 3.500A	0.00 - 35.00A		
		H	3.00 - 35.00A	30.0 - 350.0A		
	Resolution <sup>8</sup>	L	0.001A	0.01A		
		H	0.01A	0.1A		
	Accuracy	L	±(1% of reading + 5 counts) <sup>9</sup>			
		H	±(1% of reading + 1 count) <sup>9</sup>			
Current (Optional 0 - 600V)	Range	L	0.000 - 3.500A	0.00 - 35.00A		
		H	3.00 - 35.00A	30.0 - 350.0A		
	Resolution <sup>8</sup>	L	0.001A	0.01A		
		H	0.01A	0.1A		
	Accuracy	L	±(1% of reading + 5 counts) <sup>9</sup>			
		H	±(1% of reading + 1 count) <sup>9</sup>			
Frequency	Range	45.0 - 850.0Hz				
	Resolution	0.1Hz				
	Accuracy	± 0.1Hz				
Power	Range	L	0.0 - 350.0W	0.000 - 3.500kW		
		H	300W - 4kW	3.00 - 40.00kW		
	Resolution	L	0.1W	0.001kW		
		H	1W	0.01kW		
	Accuracy	L	±(1.5% of reading + 5 counts) at Voltage > 5V <sup>10</sup>			
		H	±(1.5% of reading + 1 count) at Voltage > 5V			

#### GENERAL

Remote Input Signal Interface	ON/OFF, P1, P2, P3				
Memory	8 Memories, 5 steps per memory for Voltage, Frequency, Test Time, Delay time and Current, Power, Hi, Lo Limit setting				
Sync Output Signal	Yes				
Display	4 group pf digital LED displays				
Efficiency	≥ 80% (at Full Load)	≥ 85% (at Full Load)			
Protection	OCP, OVP, OPP, OTP, LVP, Short Circuit ; Alarm and shutdown				
Interface <sup>11</sup>	Standard USB & RS232, Optional GPIB & Analog card				
Op./Non-Op. Temp./Humidity	0 to 40°C/-40 to 75°C/20 to 80%RH				
Dimension (W x H x D), mm <sup>12</sup>	430 x 732 (839) x 650 (730)	430 x 732 (839) x 650 (730)	600 x 842 (949) x 900 (980)	800 x 1557 (1662) x 900 (980)	1200 x 1557 (1805) x 900 (980)
Dimension (PFC)(W x H x D), mm <sup>12</sup>	600 x 732 (839) x 900 (980)	600 x 732 (839) x 900 (980)	600 x 842 (949) x 900 (980)	1000 x 1557 (1662) x 900 (980)	1200 x 1557 (1805) x 900 (980)
Weight	160kg	199kg	373kg	645kg	1139kg
Weight (PFC)	299kg	362kg	547kg	909kg	1505kg

#### INBOX ACCESSORIES

1224 USB Cable\*1

\*Product specifications are subject to change without notice

6300 Series Specifications (>100kVA)			
MODEL		63120	63150
<b>AC OUTPUT</b>			
Phase		3Ø	
Power Rating	1Ø	40kVA	50kVA
	Total	120kVA	150kVA
Power Rating (Optional 1Ø3W)	1Ø	40kVA	50kVA
	Total	80kVA	100kVA
Voltage <sup>1</sup>	Range	0 - 150V/0 - 300V or 0 - 175V/0 - 350V Selectable (Optional 0 - 350V) or 0 - 300V/0 - 600V Selectable (Optional 0 - 600V)	
	Resolution	0.1V	
	Accuracy	±(1% of setting + 2 counts)	
Max. Current (r.m.s) <sup>2</sup> - 1Ø	0 - 150V	336.0A	420.0A
	0 - 300V	168.0A	210.0A
Max. Current (r.m.s) <sup>3</sup> for Optional 0 - 350V - 1Ø	0 - 175V	288.0A	360.0A
	0 - 350V	144.0A	180.0A
Max. Current (r.m.s) <sup>4</sup> for Optional 0 - 600V - 1Ø	0 - 300V	168.0A	210.0A
	0 - 600V	84.0A	105.0A
Frequency <sup>5</sup>	Range	45.0 - 70.0Hz/45.0 - 500.0Hz (Optional 45 - 500Hz)/360 - 440 (Optional 400Hz) /760 - 840Hz (Optional 800Hz) Full Range Adjust	
	Resolution	0.1/1Hz	
	Accuracy	± 0.02% of setting	
Total Harmonic Distortion (THD) <sup>6</sup>		< 1% for 110/220V, 50/60Hz for 300V and Optional 350V at Resistive Load < 1.2% for 220/440V, 50/60Hz for Optional 600V at Resistive Load	
Inrush Current		3 times rated Current (r.m.s)	
Crest Factor		3 times rated Current (r.m.s)	
Line Regulation		± 0.1V	
Load Regulation		L - N : ±(0.5% of output + 0.5V)/L - L : ±(1% of output + 1V) at Resistive Load	
Deviation of phase angle		120° ≤ ± 1° at Load Balance, 120° ≤ ± 2.5° at 100% Load Unbalance	
Ramp up / Ramp down	Range	0.1 - 999.9s	
	Resolution	0.1s	
	Accuracy	± (0.1% of setting + 0.2s)	
<b>INPUT</b>			
Phase		3Ø4W	
Voltage		220 (L - N)/380Vac (L - L) ±10%	
Max. Current <sup>7</sup>		300A	375A
Frequency		47 - 63Hz	
Power Factor		0.8	
<b>MEASUREMENT</b>			
Voltage	L - N Range	0.0 - 300.0V/0.0 - 600.0V	
	L - L Range	0.0 - 520.0V/0.0 - 1040V	
	Resolution	0.1/0.2V	
	Accuracy	±(1% of reading + 2 counts) at Voltage > 5V	

MODEL		63120		63150		
Current	Range	L	0.00 - 35.00A	0.0 - 350.0A		
		H	30.0 - 350.0A	300 - 504A		
	Resolution <sup>8</sup>	L	0.01A	0.1A		
		H	0.1A	1A		
	Accuracy	L	$\pm(1\% \text{ of reading} + 5 \text{ counts})^9$			
		H	$\pm(1\% \text{ of reading} + 1 \text{ count})^9$			
Current (Optional 0 - 600V)	Range	L	0.00 - 35.00A	0.0 - 350.0A		
		H	30.0 - 350.0A	300 - 504A		
		L	0.01A	0.1A		
		H	0.1A	1A		
	Accuracy	L	$\pm(1\% \text{ of reading} + 5 \text{ counts})^9$			
		H	$\pm(1\% \text{ of reading} + 1 \text{ count})^9$			
Frequency	Range		45.0 - 850.0Hz			
	Resolution		0.1Hz			
	Accuracy		$\pm 0.1\text{Hz}$			
Power	Range	L	0.000 - 3.500kW	0.00 - 35.00kW		
		H	3.00 - 40.00kW	30.0 - 60.0kW		
	Resolution	L	0.001kW	0.01kW		
		H	0.01kW	0.1kW		
	Accuracy	L	$\pm(1.5\% \text{ of reading} + 5 \text{ counts}) \text{ at Voltage} > 5\text{V}^{10}$			
		H	$\pm(1.5\% \text{ of reading} + 1 \text{ count}) \text{ at Voltage} > 5\text{V}$			

#### GENERAL

Remote Input Signal Interface	ON/OFF, P1, P2, P3	
Memory	8 Memories, 5 steps per memory for Voltage, Frequency, Test Time, Delay time and Current, Power, Hi, Lo Limit setting	
Sync Output Signal	Yes	
Display	4 group pf digital LED displays	
Efficiency	$\geq 85\%$ (at Full Load)	
Protection	OCP, OVP, OPP, OTP, LVP, Short Circuit ; Alarm and shutdown	
Interface <sup>11</sup>	Standard USB & RS232, Optional GPIB & Analog card	
Op./Non-Op. Temp./Humidity	0 to 40°C/-40 to 75°C/20 to 80%RH	
Dimension (W x H x D), mm <sup>12</sup>	1200 x 1557 (1805) x 900 (980)	1600 x 1557 (1808) x 1106 (1186)
Dimension (PFC)(W x H x D), mm <sup>12</sup>	1200 x 1557 (1805) x 1100 (1180)-	-
Weight	1659kg	1800kg
Weight (PFC)	2139kg	-

#### 標準配件

1224 USB Cable\*1

\*Product specifications are subject to change without notice

1. When output voltage < 30V, ADJ = ON can meet this spec.
2. Maximum current when output voltage at 120/240V.
3. Maximum current when output voltage at 140/280 V.
4. Maximum current when output voltage at 240/480V.
5. Only one Option can be selected among optional output frequency 45-500Hz, 400Hz and 800Hz.
6. < 1.2% for < 47Hz at output voltage within the 110 - 140V at Low Range or the 220 - 280V at High Range (incl. 45 - 500Hz).  
< 1% for  $\geq$  47Hz at output voltage within the 110 - 140V at Low Range or the 220 - 280V at High Range (incl. 45 - 500Hz).  
< 1.2% for output voltage within the 220 - 280V at Low Range or the 440 - 560V at High Range (option 0 - 600V).  
< 1.5% for < 47Hz at output voltage within the 220 - 280V at Low Range or the 440 - 560V at High Range (option 0 - 600V & 45 - 500Hz).  
< 1.2% for  $\geq$  47Hz at output voltage within the 220 - 280V at Low Range or the 440 - 560V at High Range (option 0 - 600V & 45 - 500Hz).
7. Max. Current without PFC Function.
8. a. When output frequency  $\geq$ 100Hz &  $\leq$ 500Hz & N-G short, the current meter guarantee minimum current from 0.01A.  
b. When output frequency  $\geq$ 500Hz & N-G short, the current meter guarantee minimum current from 0.02A.  
c. When output frequency  $\geq$ 100Hz &  $\leq$ 500Hz & N-G short, the current meter guarantee minimum current from 0.02A at 600V models.  
d. When output frequency  $\geq$ 500Hz & N-G short, the current meter guarantee minimum current from 0.03A at 600V models.
9. At Voltage > 5V for 0 - 300V; At Voltage > 10V for 0 - 600V (Optional).
10. Power accuracy may vary with different output power factors.
11. Only one interface can be selected among RS232 & USB, Analog & GPIB interface card.
12. Figure in parentheses are maximum values with fixture stand.

## Models

- 6310P High Power Programmable 3 Phase
- 6310P High Power Programmable 3 Phase AC Power Source 0 - 300V/45 - 70Hz (10kVA) with PFC
- 6315 High Power Programmable 3 Phase AC Power Source 0 - 300V/45 - 70Hz (15kVA)
- 6315P High Power Programmable 3 Phase AC Power Source 0 - 300V/45 - 70Hz (15kVA) with PFC
- 6330 High Power Programmable 3 Phase AC Power Source 0 - 300V/45 - 70Hz (30kVA)
- 6330P High Power Programmable 3 Phase AC Power Source 0 - 300V/45 - 70Hz (30kVA) with PFC
- 6360 High Power Programmable 3 Phase AC Power Source 0 - 300V/45 - 70Hz (60kVA)
- 6360P High Power Programmable 3 Phase AC Power Source 0 - 300V/45 - 70Hz (60kVA) with PFC
- 6390 High Power Programmable 3 Phase AC Power Source 0 - 300V/45 - 70Hz (90kVA)
- 6390P High Power Programmable 3 Phase AC Power Source 0 - 300V/45 - 70Hz (90kVA) with PFC
- 63120 High Power Programmable 3 Phase AC Power Source 0 -300V/45 - 70Hz (120kVA)
- 63120P High Power Programmable 3 Phase AC Power Source 0 - 300V/45 - 70Hz (120kVA) with PFC
- 63150 High Power Programmable 3 Phase AC Power Source 0 - 300V/45 - 70Hz (150kVA)

## Options

- OPT.109 Replace RS232 Interface by GPIB Interface
- OPT.608 Output Voltage 600V for 6310, 6315 & Models with PFC
- OPT.609 Output Voltage 600V for 6330, 6360 & Models with PFC
- OPT.610 Output Voltage 600V for 63120 & Models with PFC
- OPT.615 Output Frequency 45 - 500Hz for 6309, 6310 & Model with PFC
- OPT.616 Output Frequency 45 - 500Hz for 6315 & Model with PFC
- OPT.617 Output Frequency 45 - 500Hz for 6330 & Model with PFC
- OPT.637 Single Phase 3 Wire Output (L1/L2/N) for 6300
- OPT.649 Output Voltage 600V for 63150
- OPT.650 Remote Sensing
- OPT.656 Output Frequency 400Hz (360 - 440Hz) for Models without PFC
- OPT.657 Output Frequency 800Hz (760 - 840Hz) for Models without PFC
- OPT.668 Suppression Input Voltage
- OPT.671 RCP Function for 6310, 6315, 6330 & Models with PFC
- OPT.672 RCP Function for 6360, 6390, 63120, 63150, Models with PFC
- OPT.673 Earthquake Proof for 6310, 6315, 6330, 6360 & Models with PFC
- OPT.674 Output Voltage 350V