

DATASHEET

6300 系列高功率可编程三相交流电源

新世代、新电能



*63210

6300系列三相交流电源最高输出可达300 kVA，PWM脉宽调变设计提供省电与空间节省效益。超高电源功率满足工业马达，空调系统及充电站等运转测试。6300宽广的频率输出范围也使它能符合航空、军事的法规与测试需求。

功能特色

- 可设定缓升时间和缓降时间，让配电时间的安排更具弹性，掌控度更高
- 可选配 350V 或 600V 电压输出，以确保超高电压需求产品的相容性，例如电动马达
- 可选配宽广范围输出频率，频率从360-440Hz 和 760 – 840 Hz。广域的频率使其涵盖了航太测试的要求。
- 内建功率因数改善设计可达 $PF > 0.95$ ，节省能源。
- 快速响应速度可于 2mS 内储存波形。
- EEC独有技术"过载电流恒定输出功能" (OCF)，自动调整电压输出来确保电流维持恒定值，持续至产品稳定运转。
- 内建8个程式记忆组，每组内含5个程式记忆步骤，便于设定与测试不同条件。不同产品的测试，可以快速切换记忆的参数，立即执行测试。
- 6300输出的总谐波失真(THD)低于1%，提供完美的电力输出波形，符合使用者严格的要求。
- 于既有的USB、RS-232和GPIB通讯介面，增加BNC连接器，提供额外的远距控制选择，以便连结至负责集中管理的电脑



90KVa

210KVa

Model			6309	6315
OUTPUT				
Phase				
Power Rating	1 Ø	3 kVA		5 kVA
	Total	9 kVA		15 kVA
Power Rating(Option 1 Ø3W)	1 Ø	3 kVA		5 kVA
	Total	6 kVA		10 kVA
Voltage ¹	Range			
	Resolution			
	Accuracy	± (1% of setting + 2counts)		
Max. Current (r.m.s) ² - 1 Ø	0 - 150 V	25.2A		42.0 A
	0 - 300 V	12.6A		21.0 A
Max. Current (r.m.s) ³ for option 0 - 350 V - 1 Ø	0 - 175 V	21.6A		36.0 A
	0 - 350 V	10.8A		18.0 A
Max. Current (r.m.s) ⁴ for option 0 - 600 V - 1 Ø	0 - 300 V	12.6A		21.0 A
	0 - 600 V	6.3A		10.5A
Frequency ⁵	Range			
	Resolution	0.1 Hz / 1Hz		
	Accuracy	± 0.02% of setting		
Total Harmonic Distortion (THD) ⁶				
Inrush Current				
Crest Factor				
Line Regulation				
Load Regulation				
Deviation of phase angle				
Ramp up / Ramp down	Range			
	Resolution			
	Accuracy			
INPUT				
Phase				
Voltage				
Max. Current ⁷		25 A		40 A
Frequency				
Power Factor				
MEASUREMENT				
Voltage	L - N Range			
	L - L Range			
	Resolution			
	Accuracy			
Current	Range	L	0.000 - 3.500 A	
		H	3.00 - 35.00 A	
	Resolution ⁸	L	0.001 A	
		H	0.01 A	
	Accuracy	L		
		H		
Current (Option 0 - 600 V)	Range	L	0.000 - 3.500 A	
		H	3.00 - 35.00 A	
	Resolution ⁸	L	0.001 A	
		H	0.01 A	
	Accuracy	L		
		H		
Frequency	Range			
	Resolution			
	Accuracy			
Power	Range	L	0.0 - 350.0 W	
		H	300 - 4000 W	
	Resolution	L	0.1 W	
		H	1 W	
	Accuracy	L		
		H		
GENERAL				
Remote Input Signal Interface				
Memory				
Sync Output Signal				
Display				
Efficiency		≥80%		
Protection				
Interface ¹⁰				
Operation Environment				
Dimension (W x H x D), mm ¹¹		430 x 732 (839) x 650 (730)		430 x 732 (839) x 650 (730)
Dimension (PFC) (W x H x D), mm ^{11,12}		600 x 732(839) x 900(980)		600 x 732(839) x 900(980)
Weight		160 kg		199 kg
Weight (PFC)		299 kg		362 kg

6330	6345	6360	6390	63120	63150	63180	63210	63240	63300
3 Ø									
10 kVA	15 KVA	20 kVA	30 kVA	40 kVA	50 kVA	60 kVA	70KVA	80KVA	100KVA
30 kVA	45 KVA	60 kVA	90 kVA	120 kVA	150 kVA	180 kVA	210KVA	240KVA	300KVA
10 kVA	15 KVA	20 kVA	30 kVA	40 kVA	50 kVA	60 kVA	70KVA	80KVA	100KVA
20 kVA	30 KVA	40 kVA	60 kVA	80 kVA	100 kVA	120 kVA	140KVA	160KVA	200KVA
0 - 150 V / 0 - 300 V or 0 - 175 V / 0 - 350 V Selectable (Option 0 - 350 V) or 0 - 300 V / 0 - 600 V Selectable (Option 0 - 600 V)									
0.1 V									
± (1% of setting + 2counts)									
84.0 A	126.0 A	168.0 A	252.0 A	336.0 A	420.0 A	504.0 A	588.0A	672.0A	840.0A
42.0 A	63.0 A	84.0 A	126.0 A	168.0 A	210.0 A	252.0 A	294.0A	336.0A	420.0A
72.0 A	108.0 A	144.0 A	216.0 A	288.0 A	360.0 A	432.0 A	504.0A	576.0A	720.0A
36.0 A	54.0 A	72.0 A	108.0 A	144.0 A	180.0 A	216.0 A	252.0A	288.0A	360.0A
42.0 A	63.0 A	84.0 A	126.0 A	168.0 A	210.0 A	252.0 A	294.0A	336.0A	420.0A
21.0 A	31.5 A	42.0 A	63.0 A	84.0 A	105.0 A	126.0 A	147.0A	168.0A	210.0A
45.0 - 70.0 Hz / 45.0 - 500.0 Hz (Option 45 - 500 Hz) / 360 - 440, 760 - 840 Hz (Option 400/800 Hz) Full Range Adjust									
0.1 Hz / 1Hz									
± 0.02% of setting									
< 1% for 110 / 220V, 50 / 60Hz for 300V and Option 350V at Resistive Load									
< 1.2% for 220 / 440V, 50 / 60Hz for Option 600V at Resistive Load									
3 times rated Current(r.m.s)									
3 times rated Current(r.m.s)									
± 0.1 V									
L - N : ± (0.5% of output + 0.5 V) / L - L : ± (1% of output + 1 V) at Resistive Load									
120° ≤ ± 1° at Load Balance, 120° ≤ ± 2.5° at 100% Load Unblance									
0.1 - 999.9s									
0.1s									
± (0.1% of setting + 0.2s)									
3Ø4W									
220 (L - N) / 380 Vac (L - L) ±10%									
75 A	115 A	150 A	230 A	300 A	375 A	450 A	525A	600A	750A
47 - 63 Hz									
0.8									
0.0 - 300.0 V / 0.0 - 600.0 V									
0.0 - 520.0 V / 0.0 - 1040 V									
0.1 V / 0.2 V									
± (1% of reading + 2counts) at Voltage > 5 V									
					0.0 - 350.0 A				
					300 - 504A		300 - 840A		
					0.1 A				
					1 A				
± (1% of reading + 5counts) ⁹									
± (1% of reading + 1counts) ⁹									
					0.0 - 350.0 A				
					300 - 504A		300 - 840A		
					0.1 A				
					1 A				
± (1% of reading + 5 counts) ⁹									
± (1% of reading + 1 count) ⁹									
45.0 - 850.0 Hz									
0.1 Hz									
± 0.1 Hz									
					0.00 - 35.00 kW				
					30.0 - 60.0 kW		30.0 - 100.0kW		
					0.01 kW				
					0.1 kW				
± (1.5% of reading + 5 counts) at Voltage > 5 V									
± (1.5% of reading + 1 count) at Voltage > 5 V									
ON / OFF, P1, P2, P3									
8 Memories, 5 steps per memory for Voltage, Frequency, Test Time, Delay time and Current, Power, Hi, Lo Limit setting									
Yes									
4 group pf digital LED displays									
≥85%									
OCP, OVP, OPP, OTP, LVP, Short Circuit ; Alarm and shutdown									
Standard USB & RS232, Option GPIB & Analog card									
0 - 40°C / 20 - 80% RH									
600 x 842 (949) x 900 (980)	800 x 1557 (1662) x 900 (980)	800 x 1557 (1662) x 900 (980)	1200 x 1557 (1805) x 900 (980)	1200 x 1557 (1805) x 900 (980)	1600 x 1557 (1805) x 1106 (1180)	1600 x 1557 (1805) x 1106 (1180)	1600 x 1557 (1805) x 1106 (1180)	1600 x 1557 (1805) x 1106 (1180)	1600 x 1557 (1805) x 1106 (1180)
600 x 842 (949) x 900 (980)	800 x 1557 (1662) x 900 (980)	800 x 1557 (1662) x 900 (980)	1200 x 1557 (1805) x 900 (980)	1200 x 1557 (1805) x 1100 (1180)	1000 x 1808 x 1186	1000 x 1808 x 1186	1000 x 1808 x 1186	1000 x 1800 x 1200	1000 x 1800 x 1200
373 kg	622 kg	645 kg	1139 kg	1659 kg	1800 kg	2100 kg	2400 kg	2600 kg	2850 Kg
547 kg	774 kg	909 kg	1505 kg	2139 kg	1100 ka	1250 ka	1300 ka	1400 ka	1500 Kg

1. When output voltage < 30 V, ADJ = ON can be meet this spec.
2. Maximum current when output voltage at 120 / 240 V
3. Maximum current when output voltage at 140 / 280 V
4. Maximum current when output voltage at 240 / 480 V
5. Only one option can be selected among optional output frequency 45 - 500Hz and 400 / 800Hz
6. < 1.2% for < 47Hz at output voltage within the 110 - 140 V at Low Range or the 220 - 280 V at High Range (incl. 45 - 500Hz)
- < 1% for ≥ 47 Hz at output voltage within the 110 - 140 V at Low Range or the 220 - 280 V at High Range (incl. 45 - 500Hz)
- < 1.2% for output voltage within the 220 - 280 V at Low Range or the 440 - 560 V at High Range (option 0 - 600V)
- < 1.5% for < 47Hz at output voltage within the 220 - 280 V at Low Range or the 440 - 560 V at High Range (option 0 - 600V & 45 - 500Hz)

- < 1.2% for ≥ 47 Hz at output voltage within the 220 - 280 V at Low Range or the 440 - 560 V at High Range (option 0 - 600V & 45 - 500Hz)
7. Max. Current without PFC Function
- 8 a. When output frequency ≥ 100 Hz & ≤ 500 Hz & N-G short, the current meter guarantee minimum current from 0.01 A
- b. When output frequency ≥ 500 Hz & N-G short, the current meter guarantee minimum current from 0.02 A
- c. When output frequency ≥ 100 Hz & ≤ 500 Hz & N-G short, the current meter guarantee minimum current from 0.02 A at 600 V models.
- d. When output frequency ≥ 500 Hz & N-G short, the current meter guarantee minimum current from 0.03 A at 600 V models
9. At Voltage > 5 V for 0 - 300 V; At Voltage > 10 V for 0 - 600 V (option)
10. Only one interface can be selected among RS232 & USB, GPIB, Analog card
11. Figure in parentheses are maximum values with fixture stand
12. >150kVA, PFC will come in a separate case

Models

- 6309 High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (9kVA)
- 6309P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (9kVA) with PFC
- 6315 High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (15kVA)
- 6315P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (15kVA) with PFC
- 6330 High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (30 kVA)
- 6330P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (30 kVA) with PFC
- 6345 High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (45 kVA)
- 6345P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (45 kVA) with PFC
- 6360 High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (60 kVA)
- 6360P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (60 kVA) with PFC
- 6390 High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (90 kVA)
- 6390P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (90 kVA) with PFC
- 63120 High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (120 kVA)
- 63120P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (120 kVA) with PFC
- 63150 High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (150 kVA)
- 63150P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (150 kVA) with PFC (2 case)
- 63180 High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (180 kVA)
- 63180P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (180 kVA) with PFC (2 case)
- 63210 High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (210 kVA)
- 63210P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (210 kVA) with PFC (2 case)
- 63240 High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (240 kVA)
- 63240P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (240 kVA) with PFC (2 case)
- 63300P High Power Programmable 3 ϕ AC Power Source 0 - 300 V / 45 - 70Hz (300 kVA) with PFC (2 case)

Options

- Opt.608 600 V AC Output for models 6309, 6315 & with PFC models
- Opt.609 600 V AC Output for models 6330, 6345, 6360 & with PFC models
- Opt.610 600 V AC Output for models 6390, 63120 & with PFC models
- Opt.615 Output Frequency 45 - 500 Hz Full Range Adjust for models 6309 & with PFC models
- Opt.616 Output Frequency 45 - 500 Hz Full Range Adjust for models 6315 & with PFC models
- Opt.617 Output Frequency 45 - 500 Hz Full Range Adjust for models 6330 & with PFC models
- Opt.637 Single Phase 3 Wire Output (L1 / L2 / N)
- Opt.649 600 V AC Output for models 63150, 63180 & with PFC models
- Opt.650 Remote Sensing
- OPT.668 suppression Input Voltage
- OPT.671 RCP function for model 6309, 6315, 6330 & with PFC models
- OPT.672 RCP function for models 6345, 6360, 6390, 63120, 63150, 63180, 63210, 63240 with PFC models & 63300P
- OPT.673 Earthquake proof for models 6309, 6315, 6330, 6345, 6360 & with PFC models
- OPT.674 Output voltage 350V
- OPT.675 Output frequency 400 / 800Hz only for models without PFC
- Opt.676 600V AC Output for models 63210, 63240 & with PFC models & 63300P
- 1528 GPIB Interface Card
- 1936 AC Power Source Remote Controller
- 1538 Analog card

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四十年来,华仪电子不断的挑战业界标准,为安规及电源测试全方位的规划与解决方案的技术领导者。从产品性能、制造品质到售后服务的重视外,华仪更提供测试方案、应用资讯以及便利的咨询管道,成为客户最安心的选择。

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