

SPECIFICATIONS

Model	63301		63302(100Wx2)		63303		63305	
Power	20W	200W	20W	100W	30W	300W	30W	300W
Current	0-4A	0-40A	0-2A	0-20A	0-6A	0-60A	0-1A	0-10A
Voltage	1-80V		1-80V		1-80V		2.5-500V	
Min. Operation Voltage (DC)	1.0V at 4A	1.0V at 40A	1.0V at 2A	1.0V at 20A	1.0V at 6A	1.0V at 60A	2V at 1A	2V at 10A
Constant Current Mode								
Range	0-4A	0-40A	0-2A	0-20A	0-6A	0-60A	0-1A	0-10A
Resolution	1mA	10mA	0.5mA	5mA	1.5mA	15mA	0.25mA	2.5mA
Accuracy	0.1%+0.1%FS.	0.1%+0.2%FS.	0.1%+0.1%FS.	0.1%+0.2%FS.	0.1%+0.1%FS.	0.1%+0.2%FS.	0.1%+0.1%FS.	0.1%+0.2%FS.
Constant Resistance Mode								
Range	0.0375Ω-150Ω (200W/16V) 1.875Ω-7.5kΩ (200W/80V)		0.075Ω-300Ω (100W/16V) 3.75Ω-15kΩ (100W/80V)		0.025Ω-100Ω (300W/16V) 1.25Ω-5kΩ (300W/80V)		1.25Ω-5Ω (300W/125V) 50Ω-200kΩ (300W/500V)	
Resolution	12 bits		12 bits		12 bits		12 bits	
Accuracy	150Ω: 0.1%± 0.2% 7.5kΩ: 0.01%± 0.1%		300Ω: 0.1%± 0.2% (0.075-30Ω) 15kΩ: 0.01%± 0.1% (30-750Ω)		100Ω: 0.1%± 0.2% (0.025-100Ω) 5kΩ: 0.01%± 0.1% (10-5k)		5kΩ: 20m% ± 0.2% 200kΩ: 5m% ± 0.1%	
Constant Voltage Mode								
Range	1-80V		1-80V		2.5-500V		2.5-500V	
Resolution	20mV		20mV		20mV		125mV	
Accuracy	0.05% ± 0.1%FS.		0.05% ± 0.1%FS.		0.05% ± 0.1%FS.		0.05% ± 0.1%FS.	
DYNAMIC MODE								
Dynamic Mode	C.C. Mode		C.C. Mode		C.C. Mode		C.C. Mode	
T1 & T2	0.025mS-10mS/Res:1uS 1mS-30S/Res:1mS 1uS/1mS+100ppm		0.025mS-10mS/Res:1uS 1mS-30S/Res:1mS 1uS/1mS+100ppm		0.025mS-10mS/Res:1uS 1mS-30S/Res:1mS 1uS/1mS+100ppm		0.025mS-10mS/Res:1uS 1mS-30S/Res:1mS 1uS/1mS+100ppm	
Accuracy	0.64-160mA/μS		6.4-1600mA/μS		0.32-80mA/μS		3.2-800mA/μS	
Slew Rate	0.64mA/μS		6.4mA/μS		0.32mA/μS		3.2mA/μS	
Resolution	0.64mA/μS		6.4mA/μS		0.32mA/μS		3.2mA/μS	
Current	0-4A		0-40A		0-2A		0-20A	
Resolution	1mA		10mA		0.5mA		5mA	
Current Accuracy	0.4%FS.		0.4%FS.		0.4%FS.		0.4%FS.	
MEASUREMENT SECTION								
Voltage Read Back								
Range	0-16V	0-80V	0-16V	0-80V	0-16V	0-80V	0-125V	0-500V
Resolution	0.5mV	2.5mV	0.5mV	2.5mV	0.5mV	2.5mV	4mV	16mV
Accuracy	0.05% + 0.05%FS.		0.05% + 0.05%FS.		0.05% + 0.05%FS.		0.05% + 0.05%FS.	
Current Read Back								
Range	0-4A	0-40A	0-2A	0-20A	0-6A	0-60A	0-1A	0-10A
Resolution	0.125mA	1.25mA	0.0625mA	0.625mA	0.1875mA	1.875mA	0.032mA	0.320mA
Accuracy	0.1% + 0.1%FS.		0.1% + 0.1%FS.		0.1% + 0.1%FS.		0.1% + 0.1%FS.	
PROTECTIVE SECTION								
Over Power Protection	≈20.8W	≈208W	≈20.8W	≈104W	≈31.2W	≈312W	≈31.2W	≈312W
Over Current Protection	≈4.08A	≈40.8A	≈2.04A	≈20.4A	≈6.12A	≈61.2A	≈1.02A	≈10.2A
Over Temperature Protection	≈85°C		≈85°C		≈85°C		≈85°C	
Over Voltage Protection	≈81.6V		≈81.6V		≈81.6V		≈510°V	
GENERAL								
Short Circuit								
Current	-	≈40A	-	≈20A	-	≈60A	-	≈10A
Resistance (CC,CV)	-	0V	-	0V	-	0V	-	0V
Resistance (CR)	-	≈0.0375Ω	-	≈0.075Ω	-	≈0.025Ω	-	≈1.25Ω
Input Resistance (Load Off)	100kΩ (Typical)		100kΩ (Typical)		100kΩ (Typical)		100kΩ (Typical)	
Temperature Coefficient	100PPM/°C (Typical)		100PPM/°C (Typical)		100PPM/°C (Typical)		100PPM/°C (Typical)	
Power	Supply from 6314 Mainframe		Supply from 6314 Mainframe		Supply from 6314 Mainframe		Supply from 6314 Mainframe	
Dimensions (WxHxD)	81 x 172 x 495 mm		81 x 172 x 495 mm		81 x 172 x 495 mm		81 x 172 x 495 mm	
Weight	4.2 Kg		4.2 Kg		4.2 Kg		4.2 Kg	
Operating Range	0-40°C		0-40°C		0-40°C		0-40°C	
EMC & Safety	CE		CE		CE		CE	

SPECIFICATIONS

Model	63306		63307(30W & 250W)			63308		63312		
Power	60W	600W	30W	30W	250W	60W	600W	120W	1200W	
Current	0-12A	0-120A	0-5A	0-4A	0-40A	0-2A	0-20A	0-24A	0-240A	
Voltage	1-80V		1-80V			2.5-500V		1-80V		
Min. Operating Voltage (DC)	1.0V at 12A	1.0V at 120A	1.0V at 5A	1.0V at 4A	1.0V at 40A	2V at 2A	2V at 20A	1.0V at 24A	1.0V at 240A	
Constant Current Mode										
Range	0-12A	0-120A	0-5A	0-4A	0-40A	0-2A	0-20A	0-24A	0-240A	
Resolution	3mA	30mA	1.25mA	1mA	10mA	0.5mA	5mA	6mA	60mA	
Accuracy	0.1%+0.1%F.S.	0.1%+0.2%F.S.	0.1%+0.1%F.S.	0.1%+0.1%F.S.	1%+0.2%F.S.	0.1%+0.1%F.S.	0.1%+0.2%F.S.	0.1%+0.1%F.S.	0.1%+0.2%F.S.	
Constant Resistance Mode										
Range	12.5mΩ-50kΩ(600W/16V) 0.625Ω-2.5kΩ(600W/80V)		0.3Ω-1.2kΩ(30W/16V) 15Ω-60kΩ(30W/80V)		0.0375Ω-150kΩ(250W/16V) 1.875Ω-7.5kΩ(250W/80V)		0.0625Ω-2.5kΩ(600W/125V) 25Ω-100kΩ(600W/500V)		6.25mΩ-25kΩ(1200W) 0.3125Ω-1.25kΩ(1200W)	
Resolution	12 bits		12 bits		12 bits		12 bits		12 bits	
Accuracy	50kΩ: 0.1% ± 0.1% (0.0125-5Ω) 25kΩ: 0.01% ± 0.1% (5-125Ω)		1.2kΩ: 0.1% ± 0.2% 60kΩ: 0.01% ± 0.1%		150Ω: 0.1% ± 0.2% 7.5kΩ: 0.01% ± 0.1%		25kΩ: 50m ± 0.2% 100kΩ: 5m ± 0.1%		25Ω: 0.1% ± 0.2% 1.25kΩ: 0.01% ± 0.1%	
Constant Voltage Mode										
Range	1-80V		1-80V			2-500V		1-80V		
Resolution	20mV		20mV			125mV		20mV		
Accuracy	0.05% ± 0.1%F.S.		0.05% ± 0.1%F.S.			0.05% ± 0.1%F.S.		0.05% ± 0.1%F.S.		
DYNAMIC MODE										
Dynamic Mode										
T1 & T2	C.C. Mode 0.025mS-10mS/Res:1uS 1mS-30S/Res:1mS		C.C. Mode 0.025mS-10mS/Res:1uS 1mS-30S/Res:1mS			C.C. Mode 0.025mS-10mS/Res:1uS 1mS-30S/Res:1mS		C.C. Mode 0.025mS-10mS/Res:1uS 1mS-30S/Res:1mS		
Accuracy	1uS/1mS+100ppm		1uS/1mS+100ppm			1uS/1mS+100ppm		1uS/1mS+100ppm		
Slew Rate	0.002-0.5A/μS	0.02-5A/μS	0.8-200mA/μS	0.64-160mA/μS	64-1600mA/μS	0.32-80mA/μS	3.2-800mA/μS	0.004-1A/μS	0.04-10A/μS	
Resolution	0.002A/μS	0.02A/μS	0.8mA/μS	0.64mA/μS	6.4mA/μS	0.32mA/μS	3.2mA/μS	0.004A/μS	0.04A/μS	
Current	0-12A	0-120A	0-5A	0-4A	0-40A	0-2A	0-20A	0-24A	0-240A	
Resolution	3mA	30mA	1.25mA	1mA	10mA	0.5mA	5mA	6mA	60mA	
Current Accuracy	0.4%F.S.		0.4%F.S.			0.4%F.S.		0.4%F.S.		
MEASUREMENT SECTION										
Voltage Read Back										
Range	0-16V	0-80V	0-16V	0-80V	0-16V	0-16V	0-125V	0-500V	0-16V	0-80V
Resolution	0.5mV	2.5mV	0.5mV	2.5mV	0.5mV	2.5mV	4mV	16mV	0.5mV	2.5mV
Accuracy	0.05% + 0.05%F.S.		0.05% + 0.05%F.S.			0.05% + 0.05%F.S.		0.05% + 0.05%F.S.		
Current Read Back										
Range	0-12A	0-120A	0-5A	0-4A	0-40A	0-12A	0-20A	0-24A	0-240A	
Resolution	0.375mA	3.75mA	0.15625mA	0.125mA	1.25mA	0.375mA	0.625mA	0.75mA	7.5mA	
Accuracy	0.1% + 0.1%F.S.		0.1% + 0.1%F.S.			0.1% + 0.1%F.S.		0.15% + 0.15%F.S.		
PROTECTIVE SECTION										
Over Power Protection	≈62.4W	≈624W	≈31.2W	≈31.2W	≈260W	≈62.4W	≈624W	≈124.8W	≈1248W	
Over Current Protection	≈12.24A	≈122.4A	≈5.1A	≈4.08A	≈40.8A	≈2.04A	≈20.4A	≈24.48A	≈244.8A	
Over Temperature Protection	≈85°C		≈85°C			≈85°C		≈85°C		
Over Voltage Protection	≈81.6V		≈81.6V			≈510V		≈81.6V		
GENERAL										
Short Circuit										
Current	-	≈120A	-	-	≈40A	-	≈20A	-	≈240A	
Resistance (CC,CV)	-	0V	-	-	0V	-	0V	-	0V	
Resistance (CR)	-	≈0.0125Ω	-	-	≈0.0375Ω	-	≈0.625Ω	-	≈0.00625Ω	
Input Resistance (Load Off)	100kΩ (Typical)		100kΩ (Typical)			100kΩ (Typical)		100kΩ (Typical)		
Temperature Coefficient	100PPM/°C (Typical)		100PPM/°C (Typical)			100PPM/°C (Typical)		100PPM/°C (Typical)		
Power	Supply from 6314 Mainframe		Supply from 6314 Mainframe			Supply from 6314 Mainframe		Supply from 6314 Mainframe		
Dimensions (WxHxD)	162x172x495 mm		81 x 172 x 495 mm			162 x 172 x 495 mm		324 x 172 x 495 mm		
Weight	8.4 Kg		4.2 Kg			8.4 Kg		16.8 Kg		
Operating Range	0-40°C		0-40°C			0-40°C		0-40°C		
EMC & Safety	CE		CE			CE		CE		

* Under Development