



DC Electronic Load System 6300 Series

SPECIFICATIONS

Model	63006		63010		63025		63030	
Power	20W	60W	20W	100W	25W	250W	30W	300W
Current	0-0.6A	0-6A	0-2A	0-20A	0-1A	0-10A	0-6A	0-60A
Voltage	2-64V (2-60V for CR Mode)		2-64V (2-60V for CR Mode)		2-256V (2-250V for CR Mode)		2-64V (2-60V for CR Mode)	
Min. Oper. Voltage (DC)	0.9V at 600mA	1.0V at 6A	0.9V at 2A	1.0V at 20A	1.3V at 1A	1.5V at 10A	0.8V at 6A	1.0V at 60A
CONSTANT CURRENT MODE								
Range	0-0.6A	0-6A	0-2A	0-20A	0-1A	0-10A	0-6A	0-60A
Resolution	0.15mA	1.5mA	0.5mA	5mA	0.25mA	2.5mA	1.5mA	15mA
Accuracy	0.1%+0.1%F.S.	0.1%+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.	0.1%+0.1%F.S.	0.1%+0.2%F.S.
CONSTANT RESISTANCE MODE								
Range	10Ω-40kΩ (60W)	0.25Ω-1kΩ (60W)	3Ω-12kΩ (100W)	0.075Ω-300Ω (100W)	25Ω-100kΩ (250W)	0.25Ω-1kΩ (250W)	1Ω-4kΩ (300W)	0.025Ω-100Ω (300W)
Resolution	12 bits		12 bits		12 bits		12 bits	
Accuracy	0.1% (0.25-100Ω), 0.01% (50-500Ω)		0.1% (0.075-50Ω), 0.01% (100Ω-1kΩ)		0.1% (0.25-100Ω), 0.01% (100Ω-1kΩ)		0.1% (0.1-100Ω), 0.01% (100Ω-1kΩ)	
CONSTANT VOLTAGE MODE								
Range	1-64V		1-64V		1.5-256V		1-64V	
Resolution	16mV		16mV		64mV		16mV	
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.	
CONSTANT POWER MODE								
Range	0.003-20W	0.03-60W	0.01-20W	0.1-100W	0.06-25W	0.6-250W	0.03-30W	0.3-300W
Resolution	0.3mW	3mW	1mW	10mW	2mW	20mW	3mW	30mW
Accuracy	2%F.S.	3%F.S.	2%F.S.	3%F.S.	2%F.S.	3%F.S.	2%F.S.	3%F.S.
DYNAMIC MODE								
Dynamic Mode	C.C. & C.R.		C.C. & C.R.		C.C. & C.R.		C.C. & C.R.	
T1 & T2	0.025ms-10ms	1ms-10s	0.025ms-10ms	1ms-10s	0.025ms-10ms	1ms-10s	0.025ms-10ms	1ms-10s
Resolution	1μs	1ms	1μs	1ms	1μs	1ms	1μs	1ms
Accuracy	2%F.S.		2%F.S.		2%F.S.		2%F.S.	
Slew Rate	0.1-25mA/μs	1.0-250mA/μs	0.32-80mA/μs	3.2-800mA/μs	0.16-40mA/μs	1.6-400mA/μs	0.001-0.25A/μs	0.01-2.5A/μs
Resolution	0.1mA/μs	1.0mA/μs	0.32mA/μs	3.2mA/μs	0.16mA/μs	1.6mA/μs	0.001A/μs	0.01A/μs
Accuracy	10%±20μs		10%±20μs		10%±20μs		10%±20μs	
Current	0-0.6A	0-6A	0-2A	0-20A	0-1A	0-10A	0-6A	0-60A
Resolution	0.15mA	1.5mA	0.5mA	5mA	0.25mA	2.5mA	1.5mA	15mA
Accuracy	0.2%F.S.		0.2%F.S.		0.2%F.S.		0.2%F.S.	
EXT WAVE MODE								
Range	0-0.6A	0-6A	0-2A	0-20A	0-1A	0-10A	0-6A	0-60A
Level	0-10V		0-10V		0-10V		0-10V	
Accuracy	0.2%F.S.	0.25%F.S.	0.2%F.S.	0.25%F.S.	0.2%F.S.	0.25%F.S.	0.2%F.S.	0.25%F.S.
SHORT CIRCUIT								
Resistance	0.08Ω (max.)		0.04Ω (max.)		0.025Ω (max.)		0.016Ω (max.)	
Current	6A		20A		10A		60A	
I/P Resistance (Load Off)	100kΩ (min.) at 60V		100kΩ (min.) at 60V		300kΩ (min.) at 250V		100kΩ (min.) at 60V	
Temp. Coefficient	100PPM/°C (typical) CC		100PPM/°C (typical) CC		100PPM/°C (typical) CC		100PPM/°C (typical) CC	
MEASUREMENT SECTION								
Voltage Read Back								
Range	0-16V	16-64V	0-16V	16-64V	0-25.6V	25.6-256V	0-16V	16-64V
Resolution	0.5mV	2mV	0.5mV	2mV	0.8mV	8mV	0.5mV	2mV
Accuracy	0.02%+0.1%F.S.		0.02%+0.1%F.S.		0.02%+0.1%F.S.		0.02%+0.1%F.S.	
CURRENT READ BACK								
Range	0-0.6A	0-6A	0-2A	0-20A	0-1A	0-10A	0-6A	0-60A
Resolution	0.0187mA	0.1875mA	0.0625mA	0.625mA	0.0312mA	0.312mA	0.1875mA	1.875mA
Accuracy	0.1%+0.1%F.S.		0.1%+0.1%F.S.		0.1%+0.1%F.S.		0.1%+0.1%F.S.	
POWER READ BACK								
Range	0-20W	20-60W	0-20W	20-100W	0-25W	25-250W	0-30W	30-300W
Resolution	0.0375mW	0.375mW	0.125mW	1.25mW	0.25mW	2.5mW	0.375mW	3.75mW
Accuracy	0.5%F.S.		0.5%F.S.		0.5%F.S.		0.5%F.S.	

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