

GPP-Series Specifications

The specifications apply under the following conditions: The GPP-Series is powered on for at least 30 minutes, within +20°C~+30°C.

Model	GPP-4323				GPP-3323			GPP-2323		GPP-1326	
Output Mode											
Number of Channel	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH1	CH2	CH1	
Voltage	0~32V	0~32V	0~5V	0~15V	0~32V	0~32V	1.8/2.5/3.3/5.0V	0~32V	0~32V	0~32V	
Current	0~3A	0~3A	0~1A	0~1A	0~3A	0~3A	5A	0~3A	0~3A	0~6A	
Tracking Series Voltage	0~64V		----		0~64V		----		0~64V		
Tracking Parallel Current	0~6A		----		0~6A		----		0~6A		
Constant Voltage Operation											
Line Regulation	$\leq 0.01\%+3mV$										
Load Regulation	$\leq 0.01\%+3mV(\text{rating current}\leq 3A)$										
	$\leq 0.02\%+5mV(\text{rating current} > 3A)$										
Ripple & Noise(5Hz - 1MHz)	$\leq 350\mu V_{rms}$		$\leq 1mV_{rms}$		$\leq 350\mu V_{rms}$		$\leq 2mV_{rms}$		$\leq 350\mu V_{rms}$		
Recovery Time	$\leq 50\mu s$				$\leq 50\mu s$		$\leq 100\mu s$		$\leq 50\mu s$		
Constant Current Operation											
Line Regulation	$\leq 0.2\%+3mA$										
Load Regulation	$\leq 0.2\%+3mA$										
Ripple & Noise	$\leq 2mArms$				$\leq 2mArms$			$\leq 2mArms$		$\leq 4mArms$	
Programming Resolution											
Programming voltage resolution	1mV				1mV		-		1mV		1mV
Programming current resolution	0.1mA				0.1mA		-		0.1mA		0.2mA
Tracking Operation(CH1,CH2)											
Tracking Error	$\leq 0.1\%+10mV$ of Master(0~32V, No Load , with Load add load regulation $\leq 100mV$)										
Parallel Regulation	Line: $\leq 0.01\%+3mV$										
	Load: $\leq 0.01\%+3mV(\text{rating current}\leq 3A)$										
	$\leq 0.02\%+5mV(\text{rating current} > 3A)$										
Series Regulation	Line: $\leq 0.01\%+5mV$										
	Load: $\leq 100mV$										
Ripple & Noise(5Hz - 1MHz)	$\leq 1mV_{rms}$										
CH3 Operation for (3323)											
Output Voltage	1.8V/2.5V/3.3V/5.0V, $\pm 5\%$										
Output Current	5A										
Line Regulation	$\leq 3mV$										
Load Regulation	$\leq 5mV$										
Ripple & Noise	2mVrms(5Hz~1MHz)										

Transient recovery time	100us					
USB Port Output	1.8V/2.5V/3.3V/5.0V, $\pm 0.35V$, 3A					
Meter						
Voltage Resolution	0.1mV	0.1mV	-	0.1mV	0.1mV	0.1mV
Current Resolution	0.1mA	0.1mA	-	0.1mA	0.2mA	0.2mA
Setting Accuracy	$\leq \pm(0.03\% + 10mV)$	$\leq \pm(0.03\% + 10mV)$	-	$\leq \pm(0.03\% + 10mV)$	$\leq \pm(0.03\% + 10mV)$	$\leq \pm(0.03\% + 10mV)$
	$\leq \pm(0.30\% + 10mA)$	$\leq \pm(0.30\% + 10mA)$	-	$\leq \pm(0.30\% + 10mA)$	$\leq \pm(0.30\% + 10mA)$	$\leq \pm(0.30\% + 10mA)$
Readback Accuracy	$\leq \pm(0.03\% + 10mV)$	$\leq \pm(0.03\% + 10mV)$	-	$\leq \pm(0.03\% + 10mV)$	$\leq \pm(0.03\% + 10mV)$	$\leq \pm(0.03\% + 10mV)$
	$\leq \pm(0.30\% + 10mA)$	$\leq \pm(0.30\% + 10mA)$	-	$\leq \pm(0.30\% + 10mA)$	$\leq \pm(0.30\% + 10mA)$	$\leq \pm(0.30\% + 10mA)$
DC load Characteristic						
Channel	2	-	2	-	2	1
Display power	0~50.00W	-	0~50.00W	-	0~50.00W	0~100.00W
Display voltage	1~33.00V	-	1~33.00V	-	1~33.00V	1~33.00V
Display current	0~3.200A	-	0~3.200A	-	0~3.200A	0~ 6.200A
CV mode setting Range	1.500V ~ 33.00V	-	1.500V ~ 33.00V	-	1.500V ~ 33.00V	1.500V~33.00V
Resolution	10mV	-	10mV	-	10mV	10mV
Set Accuracy	$\leq 0.1\%+30mV$	-	$\leq 0.1\%+30mV$	-	$\leq 0.1\%+30mV$	$\leq 0.1\%+30mV$
Read Accuracy	$\leq 0.1\%+30mV$	-	$\leq 0.1\%+30mV$	-	$\leq 0.1\%+30mV$	$\leq 0.1\%+30mV$
CC mode setting Range	0 ~ 3.200A	-	0 ~ 3.200A	-	0 ~ 3.200A	0~ 6.200A
Resolution	1mA	-	1mA	-	1mA	1mA
Set Accuracy	$\leq 0.3\%+10mA$	-	$\leq 0.3\%+10mA$	-	$\leq 0.3\%+10mA$	$\leq 0.3\%+10mA$
Read Accuracy	$\leq 0.3\%+10mA$	-	$\leq 0.3\%+10mA$	-	$\leq 0.3\%+10mA$	$\leq 0.3\%+10mA$
CR mode setting Range	1 ~ 1K ohm	-	1 ~ 1K ohm	-	1 ~ 1K ohm	1 ~ 1K ohm
Resolution	1 ohm	-	1 ohm	-	1 ohm	1 ohm
Set Accuracy	$\leq 0.3\%+1 \text{ ohm}$ (Voltage \geq	-	$\leq 0.3\%+1 \text{ ohm}$ (Voltage \geq	-	$\leq 0.3\%+1 \text{ ohm}$ (Voltage \geq	$\leq 0.3\%+1 \text{ ohm}$ (Voltage \geq
Read Accuracy	0.1V, and current \geq 0.1A)	-	0.1V, and current \geq 0.1A)	-	0.1V, and current \geq 0.1A)	0.1V, and current \geq 0.1A)
Insulation						
Chassis and Terminal	20M Ω or above (DC 500V)					
Chassis and AC Cord	30M Ω or above (DC 500V)					
Environment Condition						
Operation Temp	0~40 $^{\circ}\text{C}$					
Storage Temp	-10~70 $^{\circ}\text{C}$					
Operating Humidity	$\leq 80\%$ RH					
Storage Humidity	$\leq 70\%$ RH					
Other						
Power Source	AC100V/120V/220V/230V $\pm 10\%$; 50/60Hz					

Dimensions & Weight	213(W)x 145(H) x 312(D) mm ; Approx. 7.5kg
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