

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, ±0.35V, 3A					
Meter						
Voltage Resolution	0.1mV	0.1mV	-	0.1mV	0.1mV	
Current Resolution	0.1mA	0.1mA		0.1mA	0.2mA	
Setting Accuracy	$\leq \pm(0.03\% + 10mV)$	$\leq \pm(0.03\% + 10mV)$	-	$\leq \pm(0.03\% + 10mV)$	$\leq \pm(0.03\% + 10mV)$	
	$\leq \pm(0.30\% + 10mA)$	$\leq \pm(0.30\% + 10mA)$	-	$\leq \pm(0.30\% + 10mA)$	$\leq \pm(0.30\% + 10mA)$	
Readback Accuracy	$\leq \pm(0.03\% + 10mV)$	$\leq \pm(0.03\% + 10mV)$	-	$\leq \pm(0.03\% + 10mV)$	$\leq \pm(0.03\% + 10mV)$	
	$\leq \pm(0.30\% + 10mA)$	$\leq \pm(0.30\% + 10mA)$	-	$\leq \pm(0.30\% + 10mA)$	$\leq \pm(0.30\% + 10mA)$	
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	20MΩ or above (DC 500V)					
Chassis and AC Cord	30MΩ or above (DC 500V)					
Environment Condition						
Operation Temp	0~40°C					
Storage Temp	-10~70°C					
Operating Humidity	$\leq 80\%$ RH					
Storage Humidity	$\leq 70\%$ RH					
Other						
Power Source	AC100V/120V/220V/230V±10%; 50/60Hz					
Dimensions & Weight	213(W)x 145(H) x 312(D) mm ; Approx. 7.5kg					