

### **GPD-3303S**





### **FEATURES**

- \* Three Independent Output: 30V/3A x 2, 2.5V/3.3V/5V/3A x 1
- \* 4 LED Display Sets : 3 Digits After Decimal Point
- \* Minimum Resolution: 1mV/1mA
- \* Digital Panel Control (Rotary Encoder Switch, Rubber Key With Indicator)
- \* User-Friendly Operation, Coarse/Fine Volume Control
- \* 4 Panel Settings Save/Recall (Plus Factory Settings Recall)
- \* Key-Lock
- \* Warning Buzzer
- \* Output ON/OFF
- \* Tracking Series and Parallel Mode
- \* Smart Cooling Fan Achieving Low Noise
- \* Light-Weight and Compact Design

As always the leading power supply producer in its kind, GW Instek has insisted upon the tough quality assurance policy in order to maintain its quality differential advantage. The digitally controlled GPD-3303S DC power supply are one of the latest offerings from GW Instek. It offers digital panel control, large display, bright LED indicators, high output resolution, 4 sets of setup memory, USB remote control and smart cooling fan control. Additionally, the GPD-3303S provide easy operation, a quick selection of panel settings and most importantly, a reasonable price. All these features make the GPD-3303S the most promising new comer in the power supply market.

With 1mV/1mA high resolution, the GPD-3303S, guarantees clean and stable output. You can easily simulate the device under test's accurate behavior against small changes in voltage or current, which is impossible when using a low-resolution power supply. Overall, the resolution offered by the GPD-3303S is 10 to 100 times higher than that of traditional power supply.

The GPD-3303S can save and recall panel settings, a feature which is usually not offered by general power supplies. You can quickly select a panel setting from 4 memory sets without manual configuration. Besides, the USB device port in the GPD-3303S allows you to remotely control the power supply according to your application needs.

SPECIFICATIONS  OUTPUT  Voltage			
Voltage	SPECIFICATIONS		
CURRENT VOLTAGE OPERATION  Regulation  Line regulation ≤ 0.01%+3 mV Load regulation ≤ 0.01%+3 mV (rating current ≤ 3A) ≤ 0.02%+5 mV (rating current > 3A) ≤ 0.02%+5 mV (rating current > 3A) ≤ 1 mV rms (5 Hz-1 MHz) Recovery Time ≤ 100 // S (50%Load change, Minimum load 0.5A) ≤ 300ppm / C Output Range  CONSTANT CURRENT OPERATION  Regulation  Line regulation ≤ 0.2%+3 mA Load regulation ≤ 0.2%+3 mA Load regulation ≤ 0.2%+3 mA Load regulation ≤ 0.2%+3 mV Load regulation ≤ 0.01%+3 mV Load regulation ≤ 0.01%+5 mV Current: 1 mA Voltage: 1 mV Voltage: 1 mV Current: 1 mA Programm accuracy(25±5°C) Voltage: ±(0.03% of RDG +10 digits) Current: ±(0.3% of RDG +10	OUTPUT		
CONSTANT VOLTAGE OPERATION   Line regulation ≤ 0.01%+3mV   Load regulation ≤ 0.01%+3mV   Constant   Constan	0		
Line regulation   Line regulation   ⊆ 0.01%+3mV     Load regulation   ⊆ 0.02%+5mV     Load regulation   ⊆ 0.02%+5mV     Load regulation   ⊆ 0.01%+3mV     Load regulation   ⊆ 0.01%+3mA     Load regulation   ⊆ 0.02%+3mA     Load regulation   ⊆ 0.02%+3mA     Load regulation   ⊆ 0.02%+3mA     Load regulation   ⊆ 0.02%+3mA     Load regulation   ⊆ 0.01%+3mV     Load regulation   ⊆ 0.01%+5mV     Load regulation   ⊆	Current	0~3.0A x 2 , 3.0A (fixed)	
Load regulation ≤ 0.01%+3mV(rating current≤ 3A)	CONSTANT VOLTAGE OPERATION		
Second	Regulation	Line regulation ≤ 0.01%+3mV	
Ripple & Noise Recovery Time Temp.Coefficient Output Range Output Range Ot o to rating voltage continuously adjustable  CONSTANT CURRENT OPERATION Regulation Line regulation ≤ 0.2%+3mA Load regulation ≤ 0.2%+3mA Coutput Range Ot or rating current continuously adjustable  TRACKING OPERATION Regulation of PAR. Line regulation ≤ 0.01%+3mV Load regulation ≤ 0.01%+3mV Load regulation ≤ 0.01%+3mV Load regulation of PAR. Line regulation ≤ 0.01%+3mV Load regulation ≤ 0.01%+3mV Load regulation ≤ 0.01%+3mV Load regulation ≤ 0.01%+3mV Load regulation ≤ 0.01%+5mV Load regulation ≤ 0.00%+5mV (rating current ≥ 3A) Line regulation ≤ 0.01%+5mV Load regulation ≤ 300mV Tracking error ≤ 0.5%±10mV (10 − 30V no load) with load add load regulation ≤ 300mV) ≤ 0.5%±30mV (0 − 9.99V no load) with load add load regulation ≤ 300mV)  METER  Display A 3/4 digital 0.4" LED Display Voltage : 1mA Voltage : ±(0.03% of RDG +10 digits) Current : ±(0.3% of RDG +10 digits) Line regulation ≤ 5mV Load regulation ≤ 15mV Load regulation ≤ 15mV Load regulation ≤ 15mV EXPLOCK Yes  MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off) POWER SOURCE  DIMENSION& WEIGHT  DIMENSION& WEIGHT		Load regulation ≤ 0.01%+3mV(rating current≤ 3A)	
Recover Time		≤ 0.02%+5mV(rating current >3A)	
Temp.Coefficient Output Range Output Range Output Range    Line regulation ≤ 0.2%+3mA	Ripple & Noise	,	
Output Range 0 to rating voltage continuously adjustable  CONSTANT CURRENT OPERATION  Regulation Line regulation ≤ 0.2%+3mA Load regulation ≤ 0.2%+3mA SamArms 0 to rating current continuously adjustable  TRACKING OPERATION  Regulation of PAR. Line regulation ≤ 0.01%+3mV Load regulation ≤ 0.01%+3mV (rating current≤3A) ≤ 0.02%+5mV (rating current≤3A) ≤ 0.02%+5mV (rating current≤3A) ≤ 0.02%+5mV (rating current≤3A) (rating error ≤ 0.5%±10mV (10 ~ 30V no load) with load add load regulation ≤ 300mV) ≤ 0.5%±30mV (0 ~ 9.99V no load) with load add load regulation ≤ 300mV)  METER  Display 4 3/4 digital 0.4" LED Display Voltage : 1mV Current : 1mA Programm accuracy(25±5°C) Voltage : ±(0.03% of RDG +10 digits) Current : ±(0.3% of RDG +10 digits) Curre	Recovery Time	≤100 $\mu$ S (50%Load change, Minimum load 0.5A)	
CONSTANT CURRENT OPERATION   Line regulation ≤ 0.2%+3 mA   Load regulation ≤ 0.2%+3 mA   Load regulation ≤ 0.2%+3 mA   SamArms   0 to rating current continuously adjustable	Temp.Coefficient	≤300ppm / °C	
Regulation  Ripple Current Output Range  TRACKING OPERATION  Regulation of PAR.  Line regulation ≤ 0.2%+3mA  ≤ 3mArms 0 to rating current continuously adjustable  TRACKING OPERATION  Regulation of PAR.  Line regulation ≤ 0.01%+3mV  Load regulation ≤ 0.01%+3mV (rating current≤3A)  ≤ 0.02%+5mV (rating current>3A)  Line regulation ≤ 0.01%+5mV  Load regulation ≤ 300mV  Tracking error ≤ 0.5%±10mV (10 ~ 30V no load)  with load add load regulation ≤ 300mV)  ≤ 0.5%±30mV (0 ~ 9.99V no load)  with load add load regulation≤ 300mV)  METER  Display  A 3/4 digital 0.4" LED Display  Voltage: 1mV  Current: 1mA  Programm accuracy(25±5°C)  Voltage: ±(0.03% of RDG +10 digits)  Current: ±(0.3% of RDG +10 digits)  CH3 SPEC.  Output Voltage  3A  Line regulation ≤5mV  Load regulation ≤5mV  Load regulation ≤15mV  ≤2mVrms  MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V ±10%, 50/60Hz  DIMENSION & WEIGHT	Output Range	0 to rating voltage continuously adjustable	
Load regulation ≤ 0.2%+3mA	CONSTANT CURRENT OPERATION		
Load regulation ≤ 0.2%+3mA	Regulation	Line regulation < 0.2%+3mA	
Output Range  TRACKING OPERATION  Regulation of PAR.  Line regulation ≤ 0.01%+3mV (rating current≤3A) ≤ 0.02%+5mV (rating current>3A) Line regulation ≤ 0.01%+3mV (rating current>3A) Line regulation ≤ 0.01%+5mV (rating current>3A) Line regulation ≤ 300mV  Tracking error ≤ 0.5%±10mV (10 ~ 30V no load) with load add load regulation ≤ 300mV)  METER  Display  A 3/4 digital 0.4" LED Display Voltage: 1mV Current: 1mA  Programm accuracy(25±5°C) Voltage: ±(0.03% of RDG +10 digits) Current: ±(0.3% of RDG +10 digits)  CH3 SPEC.  CH3 SPEC.  CH3 SPEC.  CH4 SPEC.  Line regulation ≤ 5mV Load regulation ≤ 5mV Load regulation ≤ 15mV ≤ 2mVrms  KEY LOCK Yes  MEMERY SAVE/RECALL 5 sets (Including 4 memory in panel + 1 resume memory before turn off) POWER SOURCE  AC100V/120V/220V/230V ± 10%, 50/60Hz  DIMENSION & WEIGHT			
TRACKING OPERATION  Regulation of PAR.  Line regulation ≤ 0.01%+3mV (rating current≤3A) ≤ 0.02%+5mV (rating current>3A) Line regulation ≤ 0.01%+5mV (rating current>3A)  Line regulation ≤ 0.01%+5mV (rating current>3A)  Line regulation ≤ 0.01%+5mV (rating current>3A) Line regulation ≤ 300mV  Tracking error ≤ 0.5%±10mV (10 ~ 30V no load) with load add load regulation ≤ 300mV)  WIND A day digital 0.4" LED Display Woltage: 1mV Current: 1mA  Programm accuracy(25±5°C) Voltage: ±(0.03% of RDG +10 digits) Current: ±(0.3% of RDG +10 digits) Cur	Ripple Current	≤3mArms	
Line regulation ≤ 0.01%+3mV	Output Range	0 to rating current continuously adjustable	
Load regulation ≤ 0.01%+3mV (rating current≤3A) ≤ 0.02%+5mV (rating current>3A) Line regulation ≤ 0.01%+5mV Load regulation ≤ 0.05%±10mV (10 ~ 30V no load) With load add load regulation ≤ 300mV) ≤ 0.5%±30mV (0 ~ 9.99V no load) With load add load regulation ≤ 300mV) ≤ 0.5%±30mV (0 ~ 9.99V no load) With load add load regulation ≤ 300mV)  METER  Display  4 3/4 digital 0.4" LED Display Voltage : 1mV Current : 1mA  Programm accuracy(25±5°C) Voltage : ±(0.03% of RDG +10 digits) Current : ±(0.3% of RDG +10 digits)  CH3 SPEC.  Output Voltage  12.5V/3.3V/5V±8% Output Current 3A Line regulation ≤5mV Load regulation ≤5mV Load regulation ≤15mV ≤2mVrms  KEY LOCK Yes  MEMERY SAVE/RECALL 5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V±10%, 50/60Hz  DIMENSION & WEIGHT	TRACKING OPERATION		
Load regulation ≤ 0.01%+3mV (rating current≤3A) ≤ 0.02%+5mV (rating current>3A) Line regulation ≤ 0.01%+5mV Load regulation ≤ 0.05%±10mV (10 ~ 30V no load) With load add load regulation ≤ 300mV) ≤ 0.5%±30mV (0 ~ 9.99V no load) With load add load regulation ≤ 300mV) ≤ 0.5%±30mV (0 ~ 9.99V no load) With load add load regulation ≤ 300mV)  METER  Display  4 3/4 digital 0.4" LED Display Voltage : 1mV Current : 1mA  Programm accuracy(25±5°C) Voltage : ±(0.03% of RDG +10 digits) Current : ±(0.3% of RDG +10 digits)  CH3 SPEC.  Output Voltage  12.5V/3.3V/5V±8% Output Current 3A Line regulation ≤5mV Load regulation ≤5mV Load regulation ≤15mV ≤2mVrms  KEY LOCK Yes  MEMERY SAVE/RECALL 5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V±10%, 50/60Hz  DIMENSION & WEIGHT	Regulation of PAR.	Line regulation ≤ 0.01%+3mV	
Line regulation ≤ 0.01%+5mV   Load regulation ≤ 300mV     Tracking error ≤ 0.5%±10mV (10 ~ 30V no load)     with load add load regulation ≤ 300mV)     ≤ 0.5%±30mV (0 ~ 9.99V no load)     with load add load regulation ≤ 300mV)     ≤ 0.5%±30mV (0 ~ 9.99V no load)     with load add load regulation ≤ 300mV)     METER	· ·		
Load regulation ≤ 300mV  Tracking error ≤ 0.5%±10mV (10 ~ 30V no load)  with load add load regulation ≤ 300mV)  ≤ 0.5%±30mV (0 ~ 9.99V no load)  with load add load regulation ≤ 300mV)  ≤ 0.5%±30mV (0 ~ 9.99V no load)  with load add load regulation ≤ 300mV)   METER  Display  Resolution  4 3/4 digital 0.4" LED Display  Voltage : 1mV  Current : 1mA  Voltage : 1mV  Current : 1mA  Voltage : ±(0.03% of RDG +10 digits)  Current : ±(0.3% of RDG +10 digits)  Voltage : ±(0.03% of RDG +10 digits)  Current : ±(0.3% of RDG +10 digits)  Current : ±(0.3% of RDG +10 digits)  CH3 SPEC.  Output Voltage  12.5V/3.3V/5V±8%  3A  Regulation(25±5°C)  Line regulation ≤5mV  Load regulation ≤5mV  Load regulation ≤15mV  ≤2mVrms  KEY LOCK  Yes  MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V±10%, 50/60Hz  DIMENSION & WEIGHT		≤ 0.02%+5mV (rating current >3A)	
Tracking error ≤ 0.5%±10mV (10 ~ 30V no load) with load add load regulation ≤ 300mV) ≤ 0.5%±30mV (0 ~ 9.99V no load) with load add load regulation ≤ 300mV)  METER  Display Resolution Voltage : 1mV Current : 1mA  Programm accuracy(25±5°C) Voltage : ±(0.03% of RDG +10 digits) Current : ±(0.3% of RDG +10 digits) Curren	Regulation of SER.	Line regulation ≤ 0.01%+5mV	
with load add load regulation ≤ 300mV) ≤ 0.5%±30mV (0 ~ 9.99V no load) with load add load regulation ≤ 300mV)  METER  Display  Resolution  Voltage : 1mV Current : 1mA  Programm accuracy(25±5°C)  Readback accuracy(25±5°C)  Voltage : ±(0.03% of RDG +10 digits) Current : ±(0.3% of RDG +10 digits)  CH3 SPEC.  Output Voltage Output Voltage Output Current 3A Regulation(25±5°C) Line regulation ≤5mV Load regulation ≤15mV ≤2mVrms  KEY LOCK Yes  MEMERY SAVE/RECALL 5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V±10%, 50/60Hz  DIMENSION & WEIGHT		Load regulation≤ 300mV	
Second			
with load add load regulation ≤ 300mV)  METER  Display			
METER		_ ` '	
Display		with load add load regulation <u>&gt;</u> 300mV)	
Resolution         Voltage : 1mV Current : 1mA           Programm accuracy(25±5°C)         Voltage : ±(0.03% of RDG +10 digits) Current : ±(0.3% of RDG +10 digits)           Readback accuracy(25±5°C)         Voltage : ±(0.03% of RDG +10 digits)           CH3 SPEC.         Current : ±(0.3% of RDG +10 digits)           Output Voltage         ±2.5V/3.3V/5V±8%           Output Current         3A           Regulation(25±5°C)         Line regulation ≤5mV Load regulation ≤15mV           Sepple & Noise         ≤2mVrms           KEY LOCK           Yes           MEMERY SAVE/RECALL           5 sets (Including 4 memory in panel + 1 resume memory before turn off)           POWER SOURCE           AC100V/120V/220V/230V ± 10%, 50/60Hz           DIMENSION & WEIGHT	METER		
Current : 1mA		4 3/4 digital 0.4" LED Display	
Programm accuracy(25±5°C)         Voltage : ±(0.03% of RDG +10 digits)           Current : ±(0.3% of RDG +10 digits)         Voltage : ±(0.03% of RDG +10 digits)           Voltage : ±(0.03% of RDG +10 digits)         Voltage : ±(0.03% of RDG +10 digits)           CH3 SPEC.         Expression of RDG +10 digits           Output Voltage         ±2.5V/3.3V/5V±8%           Output Current         3A           Regulation(25±5°C)         Line regulation ≤5mV           Load regulation ≤15mV         ≤2mVrms           KEY LOCK           Yes           MEMERY SAVE/RECALL           5 sets (Including 4 memory in panel + 1 resume memory before turn off)           POWER SOURCE           AC100V/120V/220V/230V ± 10%, 50/60Hz           DIMENSION & WEIGHT	Resolution	S .	
Current: ±(0.3% of RDG +10 digits)  Voltage: ±(0.03% of RDG +10 digits)  Current: ±(0.3% of RDG +10 digits)  Current: ±(0.3% of RDG +10 digits)  CH3 SPEC.  Output Voltage  Output Current  3A  Regulation(25±5°C)  Line regulation ≤5mV  Load regulation ≤15mV  Sepple & Noise  KEY LOCK  Yes  MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V±10%, 50/60Hz  DIMENSION & WEIGHT			
Readback accuracy(25±5°C)       Voltage : ±(0.03% of RDG +10 digits)         CH3 SPEC.         Output Voltage       ±2.5V/3.3V/5V±8%         Output Current       3A         Regulation(25±5°C)       Line regulation ≤5mV         Load regulation ≤15mV         Sexport Sexport         KEY LOCK         Yes         MEMERY SAVE/RECALL         5 sets(Including 4 memory in panel + 1 resume memory before turn off)         POWER SOURCE         AC100V/120V/220V/230V ± 10%, 50/60Hz         DIMENSION & WEIGHT	Programm accuracy(25±5℃)		
Current : ±(0.3% of RDG +10 digits)  CH3 SPEC.  Output Voltage	B II I (0515°C)	,	
CH3 SPEC.  Output Voltage Output Current Regulation(25±5°C)  Repple & Noise  EL2.5V/3.3V/5V±8%  3A  Line regulation ≤5mV  Load regulation ≤15mV  ≤2mVrms  ELY LOCK  Yes  MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V±10%, 50/60Hz  DIMENSION & WEIGHT	Readback accuracy(25±5°C)	0 1	
Output Voltage         ±2.5V/3.3V/5V±8%           Output Current         3A           Regulation(25±5°C)         Line regulation ≤5mV           Load regulation ≤15mV           EXEY LOCK           Yes           MEMERY SAVE/RECALL           5 sets(Including 4 memory in panel + 1 resume memory before turn off)           POWER SOURCE           AC100V/120V/220V/230V±10%, 50/60Hz           DIMENSION & WEIGHT		Current : ±(0.3% of RDG +10 digits)	
Output Current  Regulation(25±5°C)  Repple & Noise  KEY LOCK  Yes  MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V±10%, 50/60Hz  DIMENSION & WEIGHT			
Regulation (25±5°C )  Repple & Noise  KEY LOCK  Yes  MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V±10%, 50/60Hz  DIMENSION & WEIGHT			
Repple & Noise   KEY LOCK  Yes  MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V±10%, 50/60Hz  DIMENSION & WEIGHT	•		
Repple & Noise ≤2mVrms  KEY LOCK  Yes  MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V±10%, 50/60Hz  DIMENSION & WEIGHT	Regulation(25 $\pm$ 5 $^{\circ}$ C)		
Yes  MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/230V±10%, 50/60Hz  DIMENSION & WEIGHT			
Yes  MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/220V/230V±10%, 50/60Hz  DIMENSION & WEIGHT		≥∠mvrms	
MEMERY SAVE/RECALL  5 sets (Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/230V±10%, 50/60Hz  DIMENSION & WEIGHT			
5 sets(Including 4 memory in panel + 1 resume memory before turn off)  POWER SOURCE  AC100V/120V/230V±10%, 50/60Hz  DIMENSION & WEIGHT			
POWER SOURCE AC100V/120V/220V/230V±10%, 50/60Hz DIMENSION & WEIGHT	,		
AC100V/120V/220V/230V±10%, 50/60Hz <b>DIMENSION &amp; WEIGHT</b>	, , ,		
DIMENSION & WEIGHT	POWER SOURCE		
	AC100V/120V/220V/230V±10%, 50/60Hz		
210(W) x 130(H) x 265(D) mm ; Approx. 7kg	DIMENSION & WEIGHT		
., ., ., ., .			







## **GPD-3303S**

# **Rear Panel**



### ORDERING INFORMATION

GPD-3303S Multiple Output Linear D.C. Power Supply

ACCESSORIES: User Manual x 1 Power cord x 1

Test lead GTL-104 x 2, GTL-105 x 1

### **Optional Accessories**

GTL-242 USB Cable

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