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Digital Program-Controlled Switching Power Supply

INSTRUCTION MANUAL

CSI3005D

English



Thank you for purchasing this digital program-controlled switching power supply. This product is specifically designed for all kinds of needs for power output. Please read this manual carefully before using the product. For future reference, please properly retain the manual after reading.

Security Code

To use this product, the following basic measures should be strictly followed to avoid hazards of electric shock, bodily injury, and fire.

- To ensure personal safety, please turn off the power switch after power work is completed; if it will not be used for a long time, please unplug the power cord!!!
- You must use approved or recommended original factory parts, otherwise serious consequences will follow.
- 3. Power failure must be fixed by professionals or by maintenance personnel designated by our company.
- 4. This product uses a three-wire grounded plug that must be inserted into a three-hole grounded outlet. Do not change the plug or use an ungrounded three-headed adapter as it will cause poor grounding.

Precautions

- There must be sufficient space around the power source for heat dissipation.
- Do not use the product in environments where temperatures exceed 40°C.
- 3. When charging the battery, do not reverse the positive and negative terminals to avoid damage to the battery.
- 4. This product is of a fan-less design, full power output should be at least 4 hours. For longer continuous operation, please set the usage control rate under 80%, otherwise an artificial early failure may be possible. When ordering the product, please reserve the balance according to the actual operating current.

I. Product Features

- 1. This digital program-controlled stabilized switching power supply is designed for use in laboratories, schools, production lines, and electronic repair.
- 2. It has a small size and is lightweight, which is very easy to transport and carry.
- 3. It has high efficiency, high load capacity, and low noise and is superior to linear power supplies.

- 4. It has high voltage stability, small ripple factor, excellent short circuit protection, and over-current protection.
- It digitally adjusts current and voltage, which is more advanced, more stable, and has longer life than traditional potentiometer adjusters.
- 6. It has an output electronic switch, which can easily break the output load.
- It has a function set lock that can effectively prevent change of output parameters or change caused by misuse, which makes the product more secure and reliable.
- 8. It has a cell phone radio-frequency detection function, which is of a 4.2V 2A/ 19V 5A fixed output function. Parameters can be displayed by pressing the key, which is fast and convenient. It is an essential tool for cell phone and laptop repair.
- 9. It has three storage memories that can store three sets of frequently used parameters for easy retrieval.
- 10. It has an output state memory function. When the memory switch is turned on, it can retain the output status before the power switch is turned off. For example, when the power is in the output state, turn off the power switch, and when the power switch is turned on the next time the power supply will directly output the voltage. When the memory switch is turned off, it will not retain the output state when the power switch is turned off. Every time the power switch is turned on, the output key must be pressed to output voltage.

II. Product Specifications

Model	CSI3005D	
Output Power	150W	
Power Supply Voltage	110V ±10% 60Hz or 220V ±10% 50Hz	
Operation conditions	Temperature 0~40°C Relative humidity<80%	
Storage conditions	Temperature -10~70°C Relative humidity<70%	
Overall dimensions	L268×W125×H155mm±5mm	
Weight	2.3kg	

Regulated status parameters		
Export voltage	Continuously adjustable from 0 to 30V (resolution is 0.01V)	
Voltage export accuracy	±0.02V	
Voltage stability	<0.01%+3mv	
Load stability	<0.01%+3mv	
Recovery time	100uS	
Ripple noise voltage	< 0. 1% Vrms	
Temperature coefficient	<300PPM/C	

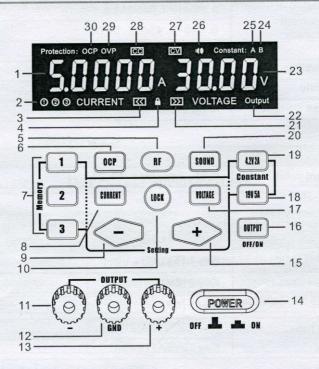
Constant current output state parameters	
Constant current value	0~5A
Constant output current	Continuously adjustable from 0 to 5A (resolution is 0. 0001A)
Constant current output accuracy	0.0001~0.0450A ±0.0001A
	0.045~0.45A±0.001A
	0.45~5A±0.01A
Current stability	<0.1%+3mA
Load stability	<0.1%+3mA
Ripple noise current	< 1% Vrms

OCP over-current automatic cutoff parameters		
OCP current value	0-5A Accuracy: ±0.01A	

Storage capacity (data for storing and transferring 5 sets of urrent and voltage data)
Initial data that has been stored (user can change and set the required voltage and current as needed)	Key 1 (3V)
	Key 2 (5V)
	Key 3 (9V)
Fixed data (non- resettable)	Key 4.2V2A (4.2V2A)
	Key 19V5A (19V5A)

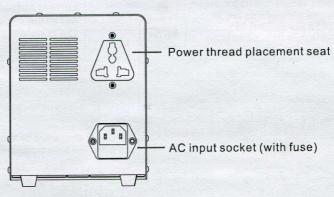
RF radio-frequency signal strength test	
Signal test frequency range	30~1800MHZ including cell phone signal test
Signal strength	>10dBM

III. Panel Diagram



- 1. Current display
- Three sets of data storage indicators
- 3. Current setting indicator
- 4. Function setting lock indicator
- 5. RF radio frequency signal detection button
- Current protection mode key (over-current shutdown or constant current output)
- 7. Three sets of data storage key
- 8. Current setting key
- 9. Data reduce key
- 10. Function setting lock key
- 11. Negative output
- 12. Earth wire
- 13. Positive output

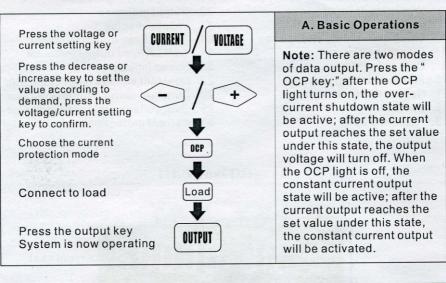
- 14. Power switch
- 15. Data increase key
- 16. Output switch key
- 17. Voltage setting key
- 18. 19V 5A fixed output key
- 19. 4. 2V 2A fixed output key
- 20. Sound switch key
- 21. Voltage setting indicator
- 22. Output indicator
- 23. Voltage display
- 24. 19V 5A fixed output indicator
- 25. 4.2V 2A fixed output indicator
- 26. Sound indicator
- 27. Constant voltage output indicator
- 28. Constant current output indicator
- 29. Over voltage protection indicator
- 30. Current protection mode indicator

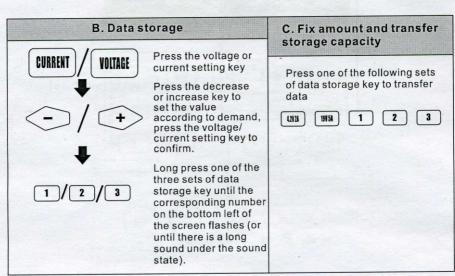


Backboard diagram

IV. Operation instructions

- 1. Connect to power
- 2. Turn on the power switch; current and power value of the previous setting will be displayed each time the power is turned on
- Instructions: First, make sure the function setting key is in the closed state (function setting lock indicator is off).





D. Instruction of function setting lock SOUND DUTPUT RF Unavailable functions under the lighting state Available functions under the close state LOCK All keys . Users of this function can use it under different CURRENT VOLTAGE working conditions as needed to ensure work is stable, secure, and reliable.

E. Cell phone signal test function (can check the cell phone signal strength) Dial the phone close to the panel Press to lighten the key The result will be displayed on the display screen. The more "1" that are lit, the stronger the signal

F. Output state memory settings

With the power off, first press and hold the output key, then turn on the power switch. The display screen will show "OFF" or "ON." Press the data increase key to turn on the memory function and the display screen will show "ON." Press the data decrease key to turn off the memory function and the display screen will show "OFF."

G. When the output voltage exceeds 36V, the over voltage indicator "OVP" will flash and there will be an alarm sound (if the sound is not off). Please examine the cause before turning on the power switch.

H. Features of constant current

After the voltage and current values are set, when the power supply has load, the status of the working power is determined by the load resistance, which follows Ohm's Law: R=V/I. When the output current reaches the constant value that was previously set, it will automatically enter the constant current state from the constant voltage state; vice versa: when the load current is below the set value, the output current will automatically return to the constant voltage state from the constant voltage state. When the "CC" indicator light is on, the output current is in the constant state; when the "CV" indicator light is on, the output current is in the constant voltage state.

4. When work is completed, please turn off the power switch.

Pr	oduct certification
Model NO.	
Product ID	The state of the s
Examine	Upon examination products meet technical standards
Sales Date	
Date of manufacture	

Warranty Card

Thank you for choosing this type of products, please read the following terms before using:

 From purchasing date within 7 days, under normal use(Artificial damage), new package, not be disassemble and repaired , enjoy replacement service.

2. From purchasing date within one year, under normal use, if there are quality problem, not be disassemble and repaired ,enjoy free repair service.

 For more than warranty, we provide a lifetime warranty service, free of labor costs, charge only spare parts costs.

4. Failure to present warranty card during warranty period, the company will not be a free service.

5. Users need warranty service, please contact your original sales unit.

6. When users need warranty service, please provide warranty card and purchase invoice, or receipt of the certificate of the company seal.

7. Warranty does not include transportation costs and provide on-site service.

Maintenance records

NO.	Date for repair	Cause	Fix date	Repairer
		Construction of the second second second		
			ele estratione California de la companya	s pilassation flat Associate
	in contract of	100 A		

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Simply smart circuitry since 1971

Statement: The company reserves the right to improve and upgrade products, product specifications and design are subject to change without notice.