

Product Upgrade Notice: CSP-3000 Optimization and Conformal Coating Added

Date : 2019/12/16

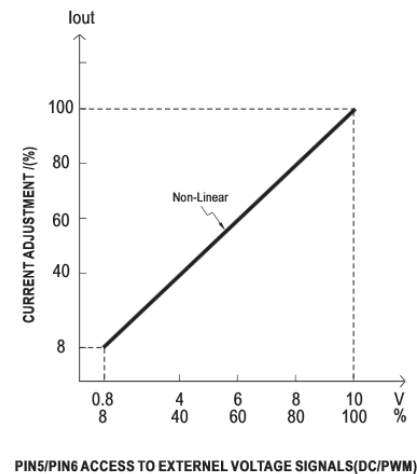
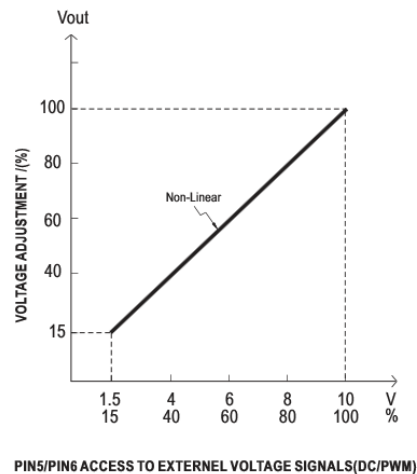
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CSP-3000 is MEAN WELL first high-voltage power supply, providing 120V / 250V / 400V output voltage. Since it was launched, it has been highly favored and being widely used in laser, UV curing and charging applications. In order to make the product fit to the market application better, several upgrades from customers' feedbacks are made, listed as follow :

1. Adjusting PV/PC Function

The original access to external voltage signal of PV/PC is 20%~100%, 8%~100% for PWM. After optimization, the external voltage and PWM signal controllable range are uniformly defined (show as Fig. 1), and the PV range is 15% to 100%, PC range is 8% ~ 100%.



(Fig. 1)

2. Adding PV/PC Adjustment Method

PV/PC can be adjusted via two methods, one is external voltage 10V, and the other is 500~1KHz PWM signal, enhancing the adjustment flexibility. (show as Fig. 2)

(Fig. 2)

※ PV/PC Set adjustment

◎ Adjust the resistance(SVR2) can set output voltage or constant current point, the adjusting range is 20%-100% of max voltage or max constant current point.

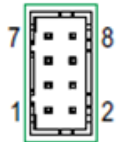
◎ In the CN2, pin5/pin6 access external 10V voltage signal or 500-1KHz PWM signal can adjust the output voltage or constant current point.

3. Canceling Rapid Output Response

CN2 PIN5/PIN6 functions were rapid output response. However, considering the speed of 500Hz~1KHz is not fast enough for certain applications, rapid output response is removed after the optimization (Fig.3). CN2 PIN5/PIN6 are for PV/PC function and NC PIN for PIN7/PIN8.

Before

※Control Pin No. Assignment (CN2) : FJY 964-20431-180016 or equivalent

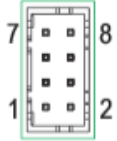


Mating Housing	FJY 3521-1000204-1803 or equivalent
Terminal	FJY 256-210000-22119 or equivalent

Pin No.	Function	Description
1	12VAUXG	Auxiliary output GND
2	12V AUX+	Auxiliary output+
3	NC	
4	NC	
5	PV/PC+	PV/PC Output Voltage/Current Programming+
6	PV/PC-	PV/PC Output Voltage/Current Programming-
7	SET+	PV/PC set+
8	SET-	PV/PC set-

After

※Control Pin No. Assignment (CN2) : HRS DF11-8DP-2DS or equivalent



Mating Housing	HRS DF11-8DS or equivalent
Terminal	HRS DF11-**SC or equivalent

Pin No.	Function	Description
1	12VAUXG	Auxiliary output GND
2	12VAUX+	Auxiliary output+
3	NC	
4	NC	
5	PV/PC+	PV/PC adjust+
6	PV/PC-	PV/PC adjust-
7	NC	
8	NC	







Note: NC pins, please keep open circuit and do not connect to other pins/signals.

(Fig.3)

4. Adding LED Signal

With adding LED Signal function, users can quickly determine whether the power supply is working normally or not for troubleshooting.

※LED status indication

LED	LED Signal	Description
Green LED normal		Power supply working normally
Green LED slow flash (Cycle 1.4S)		Standby power supply (Remote off)
Red LED of flash (Cycle 200mS)		Power OVP, output voltage too low
Red LED slow flash (Cycle 1.4S)		NTC fault, power OTP, temperature switch action
Red LED normal		Power fan fault
Red LED of flash (Cycle 200mS) Green LED of flash		Line fault, CN2 pin 7/8 signal abnormal

(Fig.4)

5. Adding Conformal Coating

As most CSP-3000 models are applied in a dusty and humid environment from customers' feedbacks, conformal coating is added to standard products. (Fig.5)

■ Features

- AC input 180~264VAC
- Built-in active PFC function
- High efficiency up to 93%
- Forced air cooling by built-in DC fans
- Output voltage / current programmable
- Active current sharing up to 9000W(2+1)
- Built-in remote ON-OFF control / auxiliary power / power OK signal
- Protections: Short circuit / Overload / Over voltage / Over temperature / Fan failure
- Conformal coating
- 5 years warranty

(Fig.5)

The following standard product series are upgraded to the new version after the production dated 2019/12/17(production lot.: W2001B). MEAN WELL will fully absorb the costs incurred from this upgrade and will not increase the product price. If you have any questions, please check the updated product datasheet on the MEAN WELL website or contact your MEAN WELL sales representative.

Model	Upgraded Date	Lot. No.
CSP-3000	2019.12.17	W2001B

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Marketing Department