

Typical Characteristic Curves

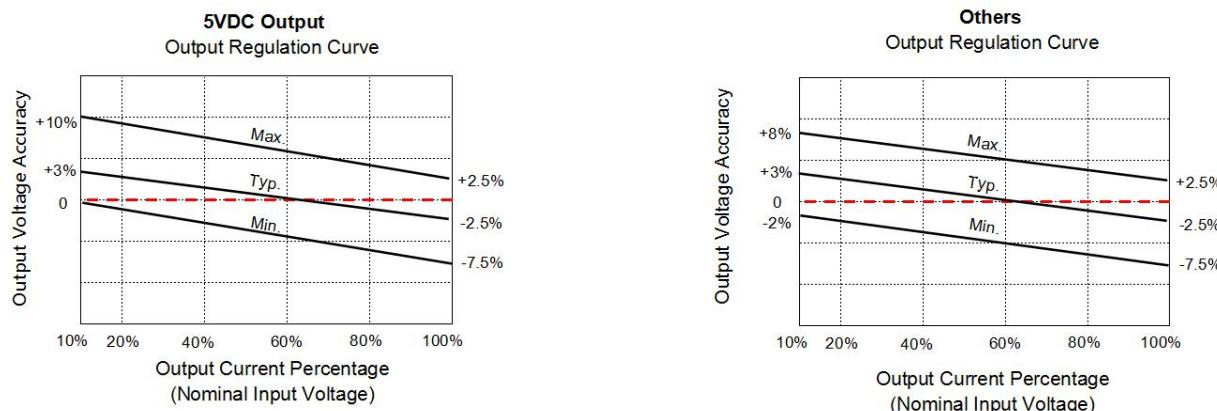


Fig. 1

Temperature Derating Curve

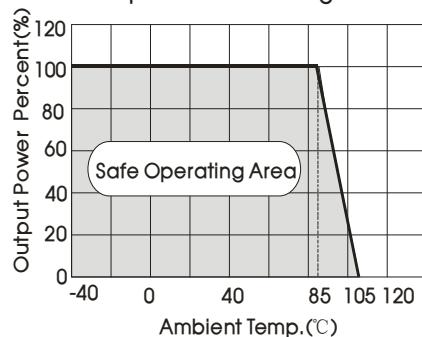
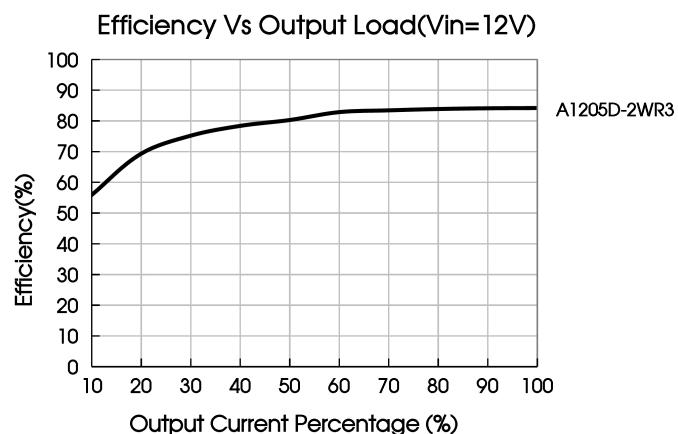
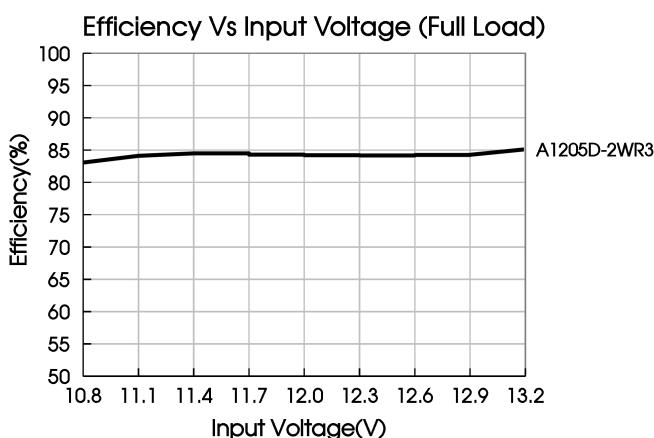
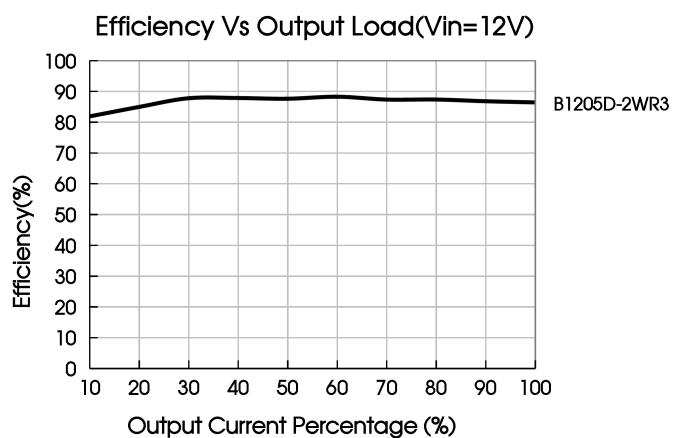
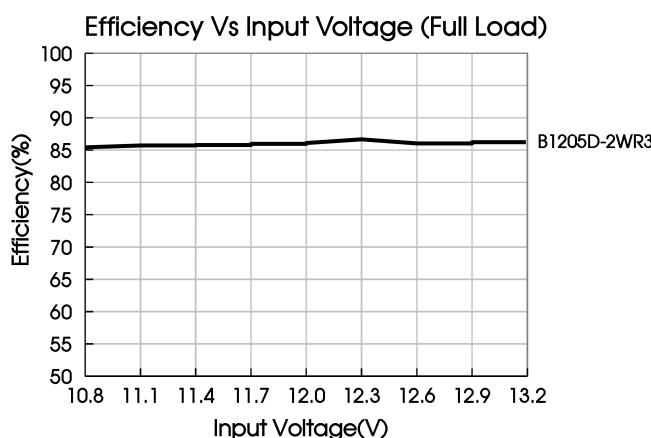


Fig. 2





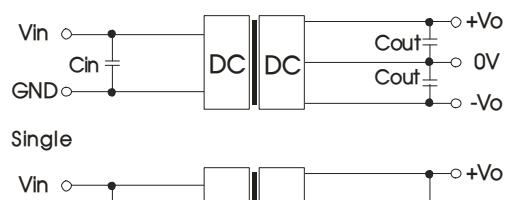
Design Reference

1. Typical application

Input and/or output ripple can be further reduced, by connecting a filter capacitor from the input and/or output terminals to ground as shown in Fig.3.

Choosing suitable filter capacitor values is very important for a smooth operation of the modules, particularly to avoid start-up problems caused by capacitor values that are too high. For recommended input and output capacitor values refer to Table 1.

Dual



Single



Fig.3

Table 1: Recommended input and output capacitor values

Vin	Cin	Dual Vout	Cout*	Single Vout	Cout
12VDC	2.2μF/25V	±5VDC	4.7μF/16V	5VDC	10μF/16V
15VDC	2.2μF/25V	±9VDC	4.7μF/16V	9VDC	2.2μF/25V
24VDC	1μF/50V	±15VDC	1μF/25V	12VDC	2.2μF/25V
--	--	±12VDC	1μF/25V	15VDC	2.2μF/25V
--	--	±24VDC	0.47μF/50V	24VDC	1μF/50V

Note: *The capacitor value of the positive and the negative output is identical.

2. EMC compliance circuit

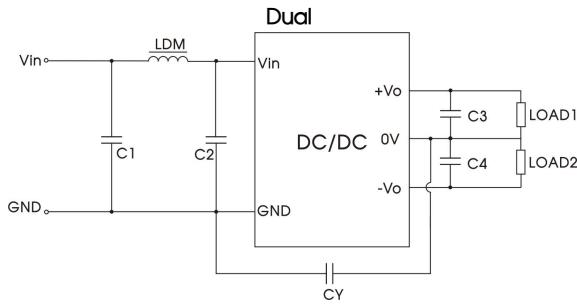
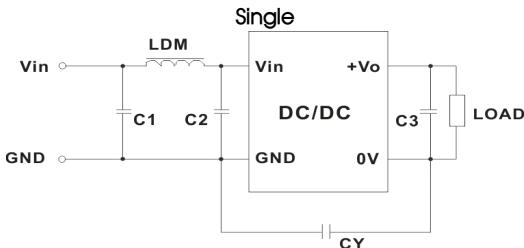
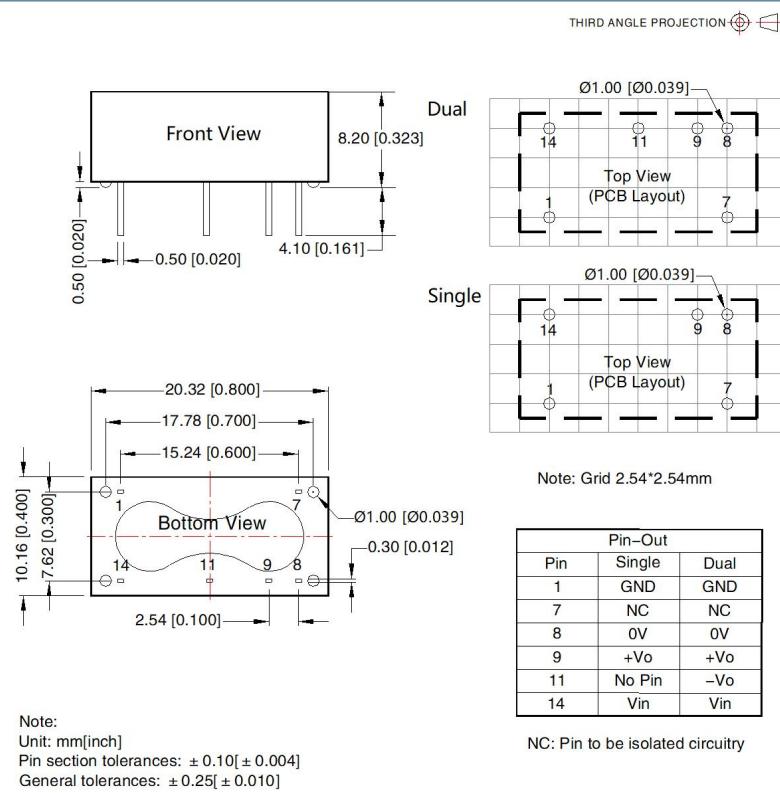


Fig.4

Emissions	C1/C2	4.7μF/50V
	CY	270pF/2kV
	C3/C4	Refer to the Cout in Fig.3
	LDM	6.8μH

3. For additional information, please refer to DC-DC converter application notes on
www.mornsun-power.com

Dimensions and Recommended Layout



Notes:

- For additional information on Product Packaging please refer to www.mornsun-power.com. Packaging bag number: 58200009;
- If the product is not operated within the required load range, the product performance cannot be guaranteed to comply with all parameters in the datasheet;
- The maximum capacitive load offered were tested at input voltage range and full load;
- Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C , humidity<75%RH with nominal input voltage and rated output load;
- All index testing methods in this datasheet are based on our company corporate standards;
- We can provide product customization service, please contact our technicians directly for specific information;
- Products are related to laws and regulations: see "Features" and "EMC";
- Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units.

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