

FEATURES:

- Wide input range
- Short-circuit protection, input under voltage protect, over current protect, over voltage protect, over temperature protect
- I/O isolation voltage 2250V
- Working temperature: -40°C~+100°C
- No additional components required
- Stable performance and high reliability (MTBF≥500K hours)
- Industry standard 1/4 brick pin-out



Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD200G-12S05	12	9-18	5	40			6000
LD200G-12S12			12	16.7			2000
LD200G-12S15			15	13.3			2000
LD200G-12S24			24	8.4			1000
LD200G-12S28			28	5.56			1000
LD200G-12S48			48	4.2			450
LD200G-18S05	18	9-36	5	40			6000
LD200G-18S12			12	16.7			2000
LD200G-18S15			15	13.3			2000
LD200G-18S24			24	8.4			1000
LD200G-18S28			28	5.56			1000
LD200G-18S48			48	4.2			450
LD200G-24S05	24	18-36	5	40			6000
LD200G-24S12			12	16.7			2000
LD200G-24S15			15	13.3			2000
LD200G-24S24			24	8.4			1000
LD200G-24S28			28	5.56			1000
LD200G-24S48			48	4.2			450
LD200G-36S05	36	18-72	5	40			6000
LD200G-36S12			12	16.7			2000
LD200G-36S15			15	13.3			2000
LD200G-36S24			24	8.4			1000
LD200G-36S28			28	5.56			1000
LD200G-36S48			48	4.2			450
LD200G-48S05	48	36-72	5	40			6000
LD200G-48S12			12	16.7			2000
LD200G-48S15			15	13.3			2000
LD200G-48S24			24	8.4			1000
LD200G-48S28			28	5.56			1000

LD200G-48S48			48	4.2		450
LD200G-110S05	110	72-144	5	40		6000
LD200G-110S12			12	16.7		2000
LD200G-110S15			15	13.3		2000
LD200G-110S24			24	8.4		1000
LD200G-110S28			28	5.56		1000
LD200G-110S48			48	4.2		450
LD200G-300S05			300	200-400	5	40
LD200G-300S12	12	16.7				2000
LD200G-300S15	15	13.3				2000
LD200G-300S24	24	8.4				1000
LD200G-300S28	28	5.56				1000
LD200G-300S48	48	4.2				450

customized accepted,pls contact sales for details

Input Specifications

Item	Min	Typ	Max	Test Conditions
Reflected Ripple Current	-	30mA	-	
Impulse Voltage(1sec.max.)	0.7VDC	-	90VDC	
Start Voltage	-	-	18VDC	
CTRL	CTRL left open or TTL high level(3.5-12VDC)			Turn on
	CTRL connect -Vin or low level(0-1.2VDC)			Turn off
	-	2mA	10mA	Turn off input current
Hot Plug	Unavailable			

Output Specifications

Item	Min	Typ	Max	Test Conditions
Voltage Accuracy		±1%	±3%	Full load, input voltage from low voltage to high voltage
Line Regulation		±0.2%	±0.5%	
Load Regulation		±0.5%	±0.75%	5%-100% Load
Transient Recovery Time	-	200μs	500μs	25% load variation
Transient Response Deviation	5V	-	±3%	25% load variation
	others	-	±3%	
Temperature Drift Coefficient	-	-	±0.03%/°C	Full Load
Ripple&Noisy	12V,15V	-	100mVp-p	200mVp-p
	others	-	130mVp-p	250mVp-p
Over Current Protect	110%Vo	125%Vo	160%%Vo	
Over Voltage Protect	110%lo	125%lo	190%lo	
Over Temperature Protect	-	+115°C	+120°C	
Short Circuit Protect	Hiccup Style,Continuous, self-recovery			

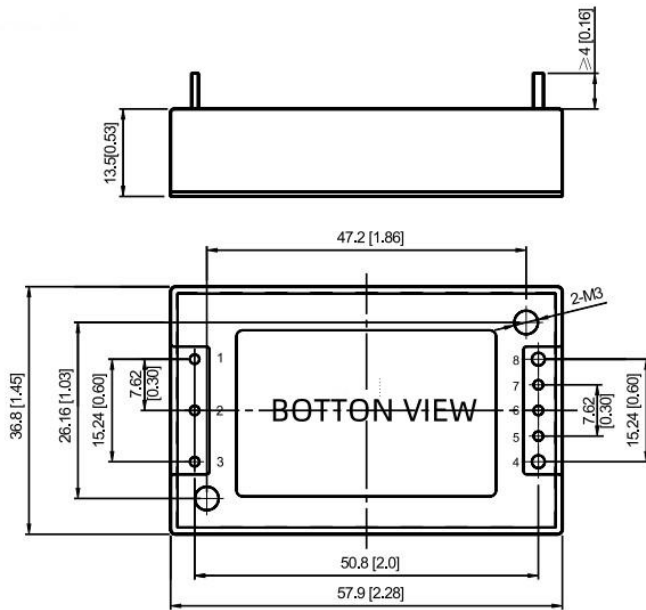
General Specifications

Insulation Resistance	100MΩ	Input-Output,Insulation Voltage 500VDC
Isolation Voltage	2250VDC	Input-Output

	1500VDC	Input-Case
	500VDC	Output-Case
Isolation Capacitance	2200pF	
Switching Frequency	250KHz	PWM
MTBF	500K Hrs	Mil HDBK 217F Tc=25°C
TRIM	95%Vo(Min),110%Vo(Max)	
Sense	105%Vo(Max)	
Case Temperature	-40~+100°C	
Storage Temperature	-55~+125°C	
Relative Humidity	10%-90%	
Pin Solder Temperature	250°C	Soldering spot is 1.5mm away from case for 10 seconds
Hand Soldering Time	10s	Iron Temperature 260 °C
Weight	60g (Typ)	

**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25°C room temperature environment.

Dimensions and Recommended Layout



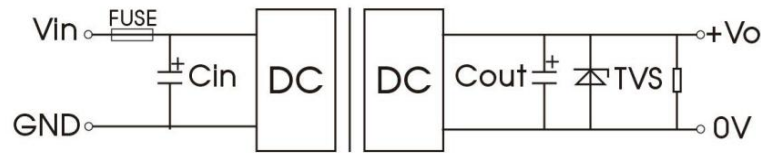
Note:
Unit: mm[inch]
Pin diameter tolerances: $\pm 0.10[\pm 0.004]$
General tolerances: $\pm 0.50[\pm 0.020]$

Pins

Pin-Out	Mark		
1	-Vin		
2	CTRL		
3	+Vin		

4	+Vo		
5	+S		
6	TRIM		
7	-S		
8	-Vo		

Recommended Circuit



Vout(VDC)	Fuse	Cin	Cout	TVS
5	10A.	220 μ F	470 μ F	SMDJ6.0A
12			220 μ F	SMDJ14A
15				SMDJ17A
24			100 μ F	SMDJ28A
48				SMDJ54A

Noted

1. Input current: Ensure that the output current of the power supply meets the instantaneous starting current of the power module (that is, twice the average input current of the power module).
2. Output load requirements: Avoid no-load use. When the actual power consumption of the load is less than 10% of the rated output power of the module or no load occurs, connect an external resistance to the output end (the sum of the external resistance and the load power is greater than or equal to 10% of the rated load) or select a module with a smaller rated power.
3. The external capacitance of the output end should not be too large; otherwise, the module may be overcurrent or poorly started. For details, see the external capacitance recommendation table.
4. External LC filter circuit can be connected for occasions with high ripple noise requirements.