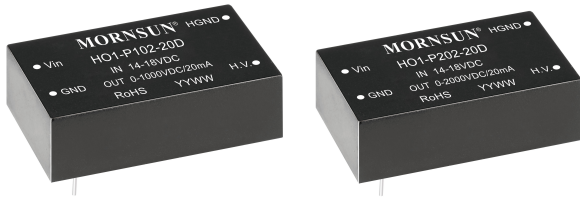


14 - 18VDC input voltage, non-isolated and single output, constant current output: 20 mA



Patent Protection RoHS



FEATURES

- Low output current ripple
- Input under-voltage protection
- Output short-circuit, over-voltage protection
- Operating ambient temperature range: -20°C to +50°C

HO1-P102-20D & HO1-P202-20D are DC-DC products feature with non-isolated, constant current output at 20 mA, maximum output voltage up to 1000/2000VDC, operating ambient temperature range of -20°C to +50°C, input under-voltage protection, output short-circuit protection, over-voltage protection. They are widely used in high voltage storage pulse capacitor and high voltage constant-current source fields.

Selection Guide

Part No.	Input Voltage (VDC)	Output Voltage(VDC)		Output Current (mA)	Full Load Efficiency(%) Min./Typ.
	Nominal (Range)	Nominal	Range		
HO1-P102-20D	16	1000	0-1000	20	82/85
HO1-P202-20D	(14-18)	2000	0-2000	20	84/87

Input Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Start-up Voltage		--	13	14	VDC
Input Under-voltage Protection		9	11	--	
Input Filter		PI filter			
Hot Plug		Unavailable			

Output Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit	
Output current		18	20	22	mA	
Temperature Coefficient	Nominal output voltage & Full load, works after preheating for 30 minutes	--	--	±0.1	%/°C	
Time Coefficient		--	--	±0.1	%/hour	
Over-voltage Protection	Input voltage range	HO1-P102-20D	1100	1250	--	VDC
		HO1-P202-20D	2000	2150	--	
Short-circuit Protection	Input voltage range	Continuous				

General Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit	
Operating Temperature		-20	--	+50	°C	
Storage Temperature		-40	--	+71		
Pin Soldering Resistance Temperature	Soldering spot is 1.5mm away from case for 10 seconds	--	--	+300		
Storage Humidity	Non-condensing	5	--	95	%RH	
Switching Frequency	PWM mode	HO1-P102-20D	--	100	--	KHz
		HO1-P202-20D	--	70	--	
MTBF	MIL-HDBK-217F@25°C	1000	--	--	K hours	

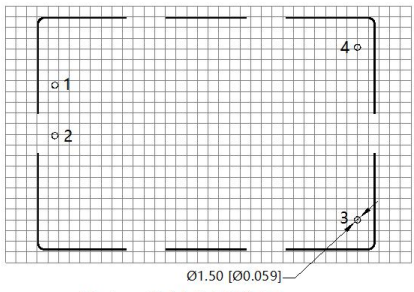
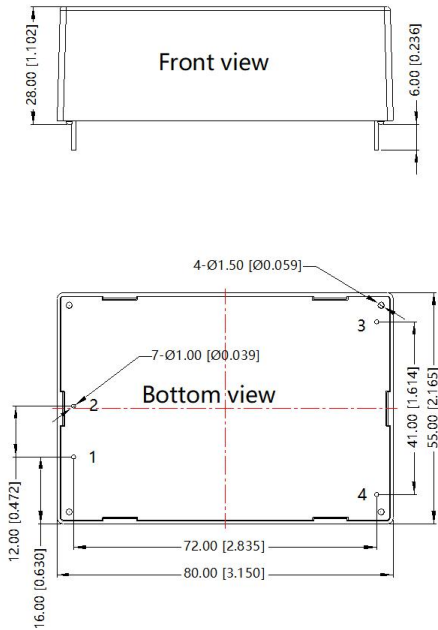
Mechanical Specifications

Case Material	Black plastic; flame-retardant and heat-resistant (UL94-V0)
Dimensions	80.00 x 55.00 x 28.00mm
Weight	140.0g(Typ.)

Cooling Method	Free air convection
----------------	---------------------

Horizontal Package Dimensions and Recommended Layout

THIRD ANGLE PROJECTION 



Note : Grid 2.54*2.54mm

Pin-Out	
Pin	Function
1	Vin
2	GND
3	H.V.
4	HGND

Note:
Unit: mm[inch]
Pin diameter tolerances: ±0.10[±0.004]
General tolerances: ±0.50[±0.020]

Notes:

- For additional information on Product Packaging please refer to www.mornsun-power.com. Packaging bag number 58220019;
- Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity<75%RH with nominal input /output voltage and rated output load;
- All index testing methods in this datasheet are based on 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";
- Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units.

Mornsun Guangzhou Science & Technology Co., Ltd.

Address: No. 5, Kehui St. 1, Kehui Development Center, Science Ave., Guangzhou Science City, Huangpu District, Guangzhou, P. R. China
Tel: 86-20-38601850 Fax: 86-20-38601272 E-mail: info@mornsun.cn www.mornsun-power.com