MORNSUN®

ADP Series Special for LCD Power supply WIDE INPUT, NON-ISOLATED & REGULATED SINGLE POSITIVE OR NEGATIVE OUTPUT



FEATURES

- I Apply to LCD display
- I Small footprint, thickness less than 7mm
- I Wide input 5 to 12VDC
- I Industry standard pinout
- I Free air convection
- I No heat sink required
- I Output voltage adjustable
- I Remote ON/OFF

PRODUCT PR	ROGRAI	M			
Part Number	Input Voltage(VDC)		011/055 5		
	Range	Nominal	ON/OFF Function	Output Voltage Characteristic	
ADP05C24	5.0-12	5.0	No	Negative Voltage output non-adjustable	
ADP05C24A			Yes	Negative Voltage output adjustable	
ADP0524A			Yes	Positive Voltage output adjustable	
ADP0528A			Yes	Positive Voltage output adjustable	

ON/OFF Function: Refer to recommended circuit.

APPL	_ICATI	IONS
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ADP series are specially designed for LCD display, these produces have wide output voltage adjustable range, and function of remote ON/OFF, free air convection, and No heat sink required while use.

SPECIFIC	ATIONS			
Part Number	Test Conditions	Min	Max	Units
ADP05C24	Vin=5.0-12V, R _L =2K Refer to recommended circuit	-25	-23	V
ADP05C24A	Vin=5V_R _{od=} 0-20k0	-25	-6.5*	
ADP0524A	ON/OFF connect to GND,	6 *	25	
ADP0528A	Refer to recommended circuit	6 *	30	
ADP05C24	Vin=5.0-12V, R _L =2K,Cout=100µF Refer to recommended circuit		200	mVp-p
ADP05C24A	Vin=5-12VDC R ₁ =2K R ₋₄ =0-20k0		200	
ADP0524A	ON/OFF connect to GND, Cout=100μF		200	
ADP0528A	Refer to recommended circuit		450	
ADP05C24		61		%
ADP05C24A	Vin=5V, $R_L = 2K$, $R_{adj} = 0\Omega$,	60		
ADP0524A	Refer to recommended circuit	61		
ADP0528A		60		
	Part Number ADP05C24 ADP05C24A ADP0524A ADP05C24 ADP05C24 ADP05C24A ADP0528A ADP0528A ADP05C24A ADP05C24A ADP05C24A ADP05C24A ADP05C24A ADP05C24A ADP05C24A ADP05C24A ADP05C24A ADP05C24A	Part NumberTest ConditionsADP05C24Vin=5.0-12V, $R_L=2K$ Refer to recommended circuitADP05C24AVin=5V, $R_{adj}=0-20k\Omega$, ON/OFF connect to GND, Refer to recommended circuitADP0528AVin=5.0-12V, $R_L=2K$, Cout= $100\mu F$ Refer to recommended circuitADP05C24AVin=5-12VDC, $R_L=2K$, $R_{adj}=0-20k\Omega$ ON/OFF connect to GND, Cout= $100\mu F$ Refer to recommended circuitADP05C24AVin=5V, $R_L=2K$, $R_{adj}=0.20k\Omega$ 	Part NumberTest ConditionsMinADP05C24Vin=5.0-12V, $R_L=2K$ Refer to recommended circuit-25ADP05C24AVin=5V, $R_{adj}=0-20k\Omega$, ON/OFF connect to GND, Refer to recommended circuit6 *ADP0528AVin=5.0-12V, $R_L=2K$, Cout=100μF Refer to recommended circuitADP05C24AVin=5.12VDC, $R_L=2K$, $R_{adj}=0-20k\Omega$ ON/OFF connect to GND, Cout=100μF Refer to recommended circuitADP05C24AVin=5-12VDC, $R_L=2K$, $R_{adj}=0-20k\Omega$ ON/OFF connect to GND, Cout=100μF Refer to recommended circuitADP05C24AVin=5V, $R_L=2K$, $R_{adj}=0\Omega$, ON/OFF connect to GND, Refer to recommended circuit61	Part Number Test Conditions Min Max ADP05C24 Vin=5.0-12V, R _L =2K Refer to recommended circuit -25 -23 ADP05C24A Vin=5V, Radj=0-20kΩ, ON/OFF connect to GND, Refer to recommended circuit 6 * 25 ADP0528A Vin=5.0-12V, R _L =2K, Cout=100μF Refer to recommended circuit 200 ADP05C24A Vin=5-12VDC, R _L =2K, Radj =0-20kΩ ON/OFF connect to GND, Cout=100μF Refer to recommended circuit 200 ADP0524A Vin=5-12VDC, R _L =2K, Radj =0-20kΩ ON/OFF connect to GND, Cout=100μF Refer to recommended circuit 450 ADP05C24A Vin=5V, R _L =2K, Radj =0Ω, ON/OFF connect to GND, Refer to recommended circuit 60 ADP05C24A ADP05C24A 60 ADP05C24A Refer to recommended circuit 60

Note: *When Vin change at 5.0-12V, adjustable IVoutI (min) will change between 6-12V;

MORNSUN Science & Technology Co.,Ltd.
Address: No. 5, Kehui St. 1, Kehui development
center, Science Ave., Guangzhou Science City,
Luogang district, Guangzhou, P.R. China.
Tel: 86-20-38601850

Fax:86-20-38601272

Http://www.mornsun-power.com

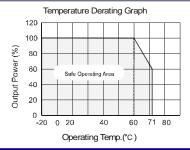
Item	Test Conditions	Min	Тур	Max	Units
Storage Humidity				95	%
Storage Temperature		-40		125	
Operating Temp.	Power derating (above 60°C)	-20		71	°C
Temp. rise at full load			15		
Lead Temperature	1.5mm from case for 10 seconds			300	
Cooling		Free air convection			
Case material		Plastic (UL94-V0)			
MTBF	25℃ (MIL-HDBK-217F)	1000			K hours
Weight			4.0		g

Note

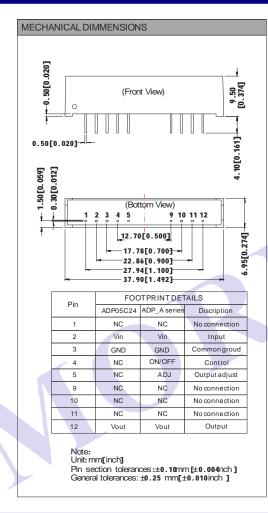
All specifications measured at T_A=25°C, humidity<75%, nominal input voltage and rated output load unless otherwise specified;

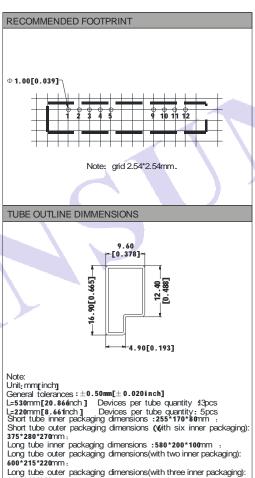
^{2.} The nominal value is -24V, 24V or 28V.

TYPICAL CHARECTERISTICS



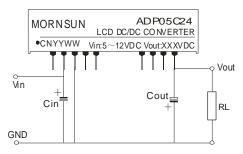
OUTLINE DIMENSIONS & FOOTPRINT DETAILS

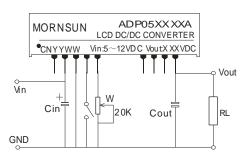




Long tube outer packaging dimensions(with three inner packaging): 600*215*325mm.

RECOMMENDED CIRCUIT





- Note: 1. When use the convertor, filter capacitors should be connected to the input and output end, to reduce ripple and noise.
 - 2. Output voltage adjustor "W" is recommended to use 20KΩ, when "W"=0Ω, IVoutI=max; "W"=20KΩ, IVoutI=min.
 - 3. ON/OFF function: when switch close, natural output; when switch open, output shutdown.
 - 4. ADJ pin is not allowed to open, or it may cause damage to the device.