# **Product News**

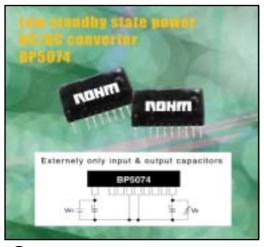


## The BP5074 series AC/DC converters

with low power consumption during standby.



(7mW – a decrease of at least 75% over previous units)



High efficiency AC/DC converters (BP5074 series) have been developed in a microcontroller application). In addition, the only external with a power consumption of 7mW during standby (¼ that of conventional products) and less than 50mW during operation at light loads (e.g. 2mA components required are input/output capacitors and a rectifier diode.

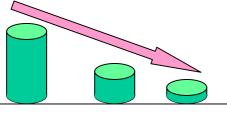
The entire series is Lead-free and RoHS compliant.

Dimensions

#### Features

1. Standby power consumption = 7mW

Input AC 100V Output DC12V, 0mA

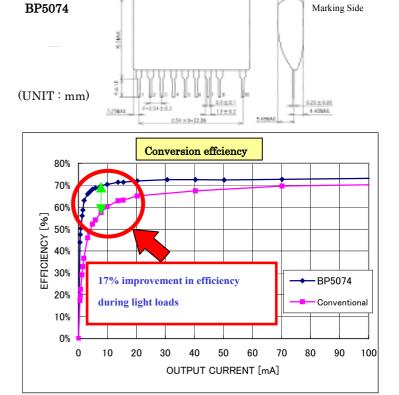


Transformer BP5034 BP5074
Type Conventional

2. Simple configuration with internal coil.

The only external components required are input/output capacitors and a rectifier diode.

3. Greater efficiency during lighter loads.



<sup>\*</sup>Contact ROHM for more information on these products.

### **●**Absolute Maximum Rating

Ta=25°C

Parameter	Symbol	Limits	Unit	Note	
Input voltage	Vin	170	V	DC	
Operating	Topr	-25 to 80	°C	Use within the limits of the derating	
temperature range					
Storage temperature	Tstg	-25 to 105	°C		
range					
Maximum Surface	Tsmax	100	°C	Including intrinsic heat generation	
Temperature					
Maximum Output	Iopeak	100	mA	Please note that the peak current value will vary	
Current				depending on ambient temperature- refer to the	
				derating curve.	

#### **•**Electrical Characteristics

Unless otherwise noted, Ta=25°C, Vin=141V, Io=50mA

		Standard				
Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Conditions
Input voltage	Vin	113	141	170	V	DC(80~120VAC)
Output voltage	Vo	11.5	12.5	13.5	V	
Output current	Io	0	-	100	mA	Note:
Line regulation	Vr	-	0.02	0.10	V	Vin=113~170V
Load regulation	Vl	-	0.05	0.15	V	Io=0~50mA
Output ripple voltage	Vp	-	0.05	0.15	Vp-p	
Conversion effciency	η	68	73	-	%	Io=100mA

Note: the maximum output current will vary depending on ambient temperature – refer to the derating curve.

#### •Application circuit

