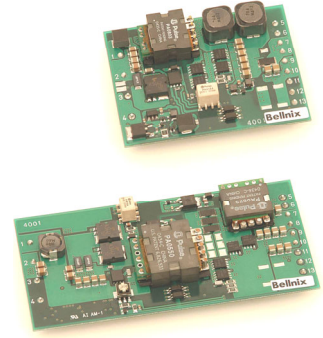
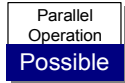


Bellnix® High Reliability, 24V Input, Isolated Type DC-DC Converter

High Reliability Converter Usable in Natural Convection!

60 Watt BFP Series 120 Watt BFP Series



High Reliability, 24V Input, Isolated Type DC-DC Converter

Input: 24V Output: 3.3V, 5V, 12V, 15V, 24V

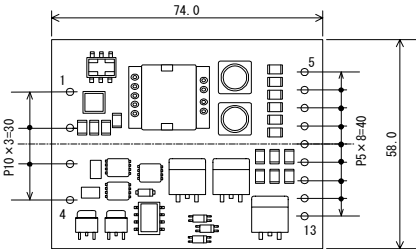
- High Efficiency 86%-88%
- Adjustable Output Voltage $\pm 10\%$
- Floating Type between Input and Output
- Over-Current, Over-Voltage Protection
- Remote ON/OFF Control
- Long Life, High Reliability
- Isolation Voltage AC500V
- Frequency Synchronous Operation Possible
- Parallel Operation Possible (Except BFP24-05S12D)
- Operating Temp Range -25°C to $+70^{\circ}\text{C}$ (Temp Derating required)
- RoHS Compliance

Models	Input V Vdc	Output V Vdc	Output I A	Line Reg. % (typ.)	Load Reg. % (typ.)	Ripple Noise mVpp (typ.)	Efficiency % (typ.)
60W BFP Series							
BFP24-05S12D	18-35	5	0-12	0.5	1	100	88
BFP24-12S05D		12	0-5				
BFP24-15S04D		15	0-4				87
BFP24-24S2R5D		24	0-2.5				

Models	Input V Vdc	Output V Vdc	Output I A	Line Reg. % (typ.)	Load Reg. % (typ.)	Ripple Noise mVpp (typ.)	Efficiency % (typ.)
120W BFP Series							
BFP24-03S20D	18-35	3.3	0-20	0.5	1	100	86
BFP24-05S24D		5	0-24				87

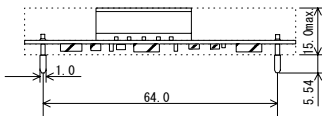
<Outline>

60Watt BFP Series

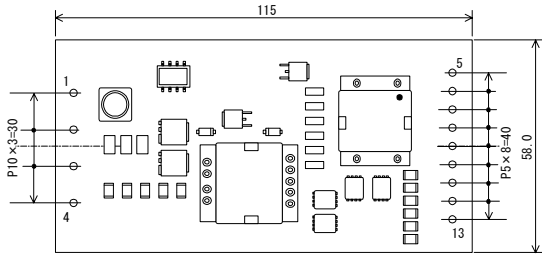


Pin	Function
1	+Vin
2	-Vin
3	ON/OFF
4	SYNC
5	VD
6	+S
7,8	+Vout
9,10	-Vout
11	-S
12	CS1 *1
13	CS2 *1

Weight : 49g typ.
Units: mm



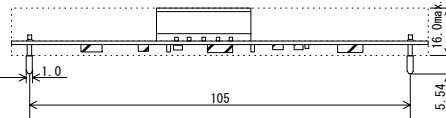
120Watt BFP Series



Pin	Function
1	+Vin
2	-Vin
3	ON/OFF
4	SYNC
5	VD
6	+S
7,8	+Vout
9,10	-Vout
11	-S
12	CS1
13	CS2

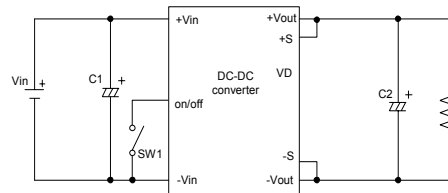
Weight : 75g typ.
Units: mm

*1: "NC" for 5V output products.



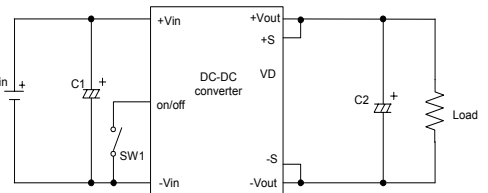
<Standard Connection Diagram>

60Watt BFP Series



SW1 : Short → Output ON
Open → Output OFF
C1 = 5V → C1's Capacity \geq C2's Capacity
Capacity
12V, 15V, 24V → 470 μ F or over
C2 : 5V → 470 μ F or over

120Watt BFP Series



SW1 : Short → Output ON
Open → Output OFF
C1 = C1's Capacity \geq C2's Capacity
C2 = 470 μ F or over

- Note!
This catalogue is an outline of the products.
When designing, be sure to refer to the data sheets.