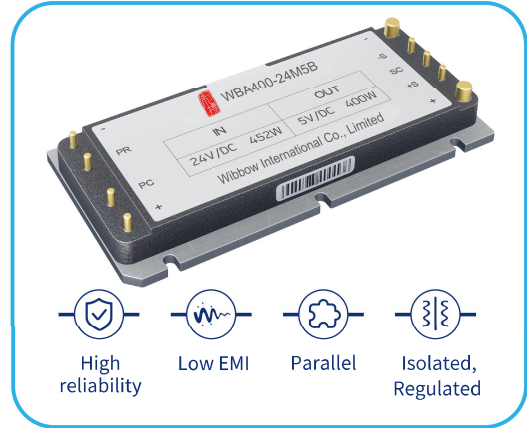




WBA24 Series Half-brick DC-DC Converter

Features

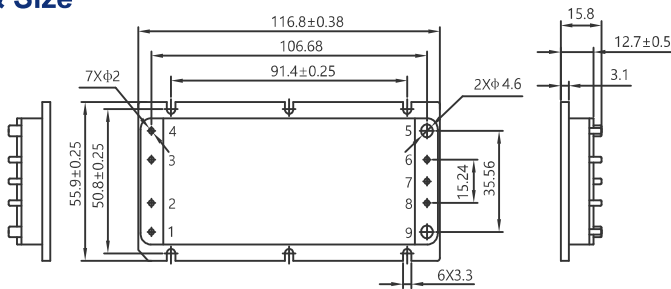
- Isolated, Regulated
- Pin-to-Pin compatible with Vicor V24A series
- Input surge resistance: 50V/100ms
- Output adjustment range: 75% ~ 110%
- Over-voltage, under-voltage, over-current, short-circuit and thermal protections
- Supports 8 parallel expansion (ORING not required)
- 3000Vac isolation
- Operating temperature: -55°C~100°C (non-derating)
- Full-brick standard package: 116.8 x55.9x12.7 mm
- Comply with the General Specification for Microcircuit Modules (SJ20668)



Product specification

| Product series | Input voltage range | Output voltage range | Adjustable range | Output current | Output power | Efficiency | Development progress |
|----------------|---------------------|----------------------|------------------|----------------|--------------|------------|----------------------|
| WBA300-24M3V3B | 18~40V | 3.3V | 75%~110% | 90.9A | 300W | 88.2% | In development |
| WBA400-24M5B | 18~40V | 5V | 75%~110% | 80A | 400W | 88.5% | In development |
| WBA300-24M8B | 18~40V | 8V | 75%~110% | 37.5A | 300W | 88.6% | In development |
| WBA400-24M12B | 18~40V | 12V | 75%~110% | 33.4A | 400W | 91.5% | In development |
| WBA400-24M15B | 18~40V | 15V | 75%~110% | 26.7A | 400W | 91.0% | In development |
| WBA500-24M24B | 18~40V | 24V | 75%~110% | 20.8A | 500W | 91.1% | In development |
| WBA500-24M28B | 18~40V | 28V | 75%~110% | 17.9A | 500W | 90.5% | In development |
| WBA500-24M36B | 18~40V | 36V | 75%~110% | 13.9A | 500W | 90.0% | In development |
| WBA500-24M48B | 18~40V | 48V | 75%~110% | 10.4A | 500W | 89.1% | In development |

Shape & Size



| Pin No. | Label | Function |
|---------|-------|---------------------------------------|
| 1 | +IN | Positive input power terminal |
| 2 | PC | Primary side control |
| 3 | PR | Parallel terminal |
| 4 | -IN | Negative input power terminal |
| 5 | -OUT | Negative output power terminal |
| 6 | -S | Distal compensation negative terminal |
| 7 | SC | Secondary side control terminal |
| 8 | +S | Distal compensation positive terminal |
| 9 | +OUT | Positive output power terminal |

Part Numbering

| WB | A | 300 | - | 24 | M | 3V3 | B |
|------------|---|-------------------------------------|---|---------------------|---|---|---------------------|
| Brand Name | Package Type | Output power | - | Input voltage range | Temperature Grade | Output voltage range | Version |
| Wibbow | A: Full-brick B: 1/2 brick C: 1/4 brick | 300: 300W 400: 400W 500: 500W | | 24: 18~40V | M: Tc: -55~100°C Ts: -65~100°C H: Tc: -40~100°C Ts: -55~100°C T: Tc: -40~100°C Ts: -40~100°C | 3V3: 3.3V 5: 5V 8: 8V 12: 12V 15: 15V 24: 24V 28: 28V 36: 36V 48: 48V | B: Standard version |