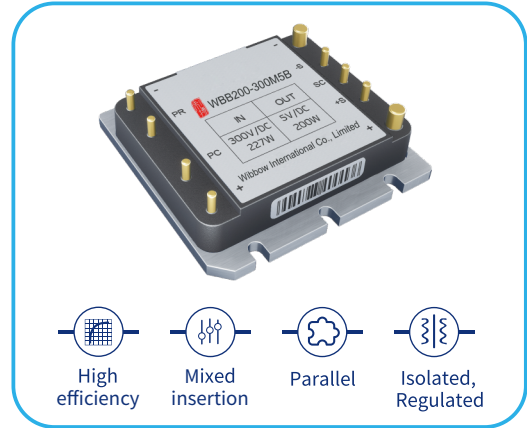




WBB300 Series Half-brick DC-DC Converter

Features

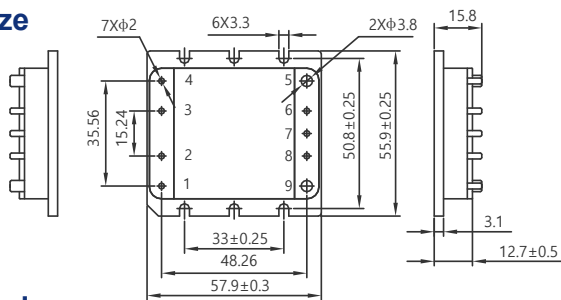
- Isolated, Regulated
- Variable frequency control, mixed insertion with Vicor V300B series
- Input surge resistance: 400V/100ms
- Wide output adjustment range: 75%~110%
- About 5% higher efficiency than similar Vicor products
- Over-voltage, under-voltage, over-current, short-circuit and thermal protections
- Supports 8 parallel expansion (ORING not required)
- 3000Vac isolation
- Operating temperature: -55°C~100°C (non-derating)
- Half-brick standard package: 57.9 × 55.9 × 12.7 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 |
|-----------------|---------------------|----------------------|------------------|----------------|--------------|------------|----------------------|
| WBB150-300M3V3B | 180~375V | 3.3V | 75%~110% | 45.4A | 150W | 85% | Available |
| WBB200-300M5B | 180~375V | 5V | 75%~110% | 40A | 200W | 89% | Available |
| WBB200-300M8B | 180~375V | 8V | 75%~110% | 25A | 200W | 91% | Available |
| WBB250-300M12B | 180~375V | 12V | 75%~110% | 20.8A | 250W | 91.0% | Available |
| WBB250-300M15B | 180~375V | 15V | 75%~110% | 16.7A | 250W | 91.8% | Available |
| WBB250-300M24B | 180~375V | 24V | 75%~110% | 10.4A | 250W | 91.5% | Available |
| WBB250-300M28B | 180~375V | 28V | 75%~110% | 8.9A | 250W | 91.5% | Available |
| WBB250-300M36B | 180~375V | 36V | 75%~110% | 6.9A | 250W | 90.5% | Available |
| WBB250-300M48B | 180~375V | 48V | 75%~110% | 5.2A | 250W | 90.5% | Available |

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 | B | 150 | - | 300 | 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 | 150: 150W 200: 200W 250: 250W | | 300: 180~375V | 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 |