

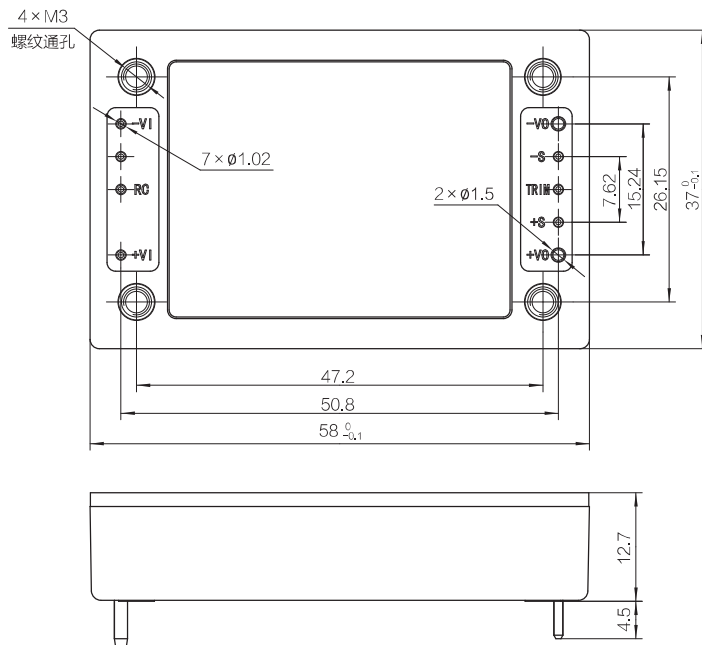


■ 1/4 Brick DC-DC Converter-150W

- High power density up to 195W/inch³
- High efficiency up to 90%
- Trim range: 90%–110%
- Monotonic start-up into pre-bias load
- Input under / over voltage protection
- Output over-current protection
- Output over voltage protection
- Over temperature protection
- Parallel function
- Logic control
- All series encapsulation potted: aluminum plate process with excellent heat dissipation



Mechanical Specifications



Pin	Function
1	-VIN
2	ON/OFF
3	+VIN
4	+VO
5	+S
6	TRIM
7	-S
8	-VO

Unit: mm Deviation: .X=±0.25 Pin: ±0.25

Specification Parameter

Parameter	Unit	EQBS150-028S05	EQBS150-028S08	EQBS150-028S12	EQBS150-048S05	EQBS150-048S08	EQBS150-048S12	
Input	Input voltage	Vdc	-0.3~40			-0.3~80		
	Input voltage (100ms)	Vdc	-0.3~50			-0.3~100		
	Operating voltage	Vdc	18~36			18~75		
	Remote off input current	mA	18			15		
	Inrush current transient	A ² s	-			-		
	Input opening voltage	Vdc	17			17		
	Input On and Off voltage	Vdc	-			-		
	Lockout hysteresis voltage	Vdc	1			1		
	Input turn off voltage	Vdc	-			-		
	Input current (max.)	A	9.3			9.5		
	Input current (no load)	mA	35			110		
	Switching frequency	kHz	280					
	Output	Output voltage	Vdc	5	8	12	5	8
Output current		A	-	-	-	-	-	-
Output power (max.)		W	150					
Typical efficiency		%	90.5	90.5	90.5	90	90	91
Output voltage trim range		%Vo, set	-20~10					
Output voltage regulation		%Vo, set	0.2					
Load regulation		%Vo, set	0.2					
Regulation over temperature		%Vo, set	1					
Output ripple and noise								
Full load: PK-PK		%Vo, set	1					
RMS		mVrms	50					
Output capacitance		uF	2000					
Output current limit		%Io, set	120					
Over voltage protection		%Vo, set	120					
Transient response								
Io=50% to 75% full load: PK-PK		%Vo, set	3%, 400 μs					
Over-temperature shutdown		°C	105 (TC)					
OCP hiccup time		sec	5					
OVP hiccup time		sec	2.5					
Others		Operating temperature	°C	-55~100				
	Storage temperature	°C	-55~125					
	Input/output isolation voltage	Vdc	2250					
	Size (L*W*H)	mm	58*37*12.7					