



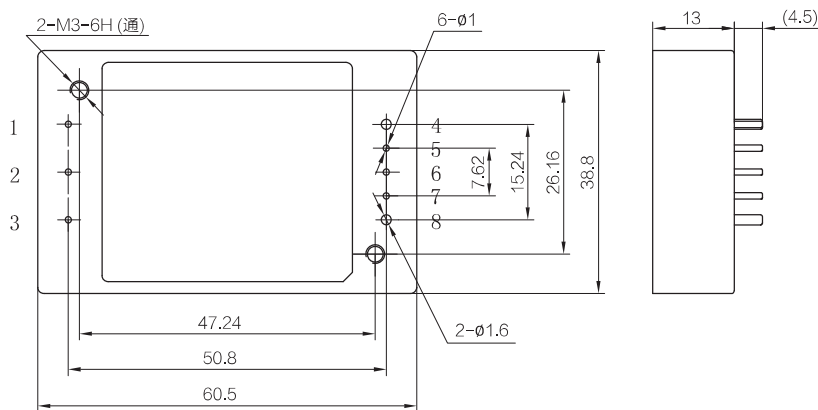
■ 1/4 Brick DC-DC Converter-360W

- High power density up to 195W/inch³
- High efficiency up to 94%
- 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

Plastic case



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 .XX=±0.10 Pin: ±0.25

Specification Parameter

Parameter	Unit	EQBS360-028S05	EQBS360-028S08	EQBS360-028S12	EQBS160-500S28	EQBS160-500S32		
Input	Input voltage	Vdc	-0.3~40		-0.3~700			
	Input voltage (100ms)	Vdc	-0.3~50		750			
	Operating voltage	Vdc	16~40		400~650			
	Remote off input current	mA	7		20			
	Inrush current transient	A ² s	-		-			
	Input opening voltage	Vdc	17.5		360			
	Input On and Off voltage	Vdc	-		-			
	Lockout hysteresis voltage	Vdc	1		10			
	Input turn off voltage	Vdc	-		-			
	Input current (max.)	A	26.5		0.5			
	Input current (no load)	mA	120		10			
	Switching frequency	kHz	150	200	150	150		
	Output	Output voltage	Vdc	5	8	12	28	32
Output current		A	-		-		-	
Output power (max.)		W	300	360	360	160	160	
Typical efficiency		%	94.5	94	94	89	89	
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	8000	6000	6000	6000	
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	60.5*38.8*13					