

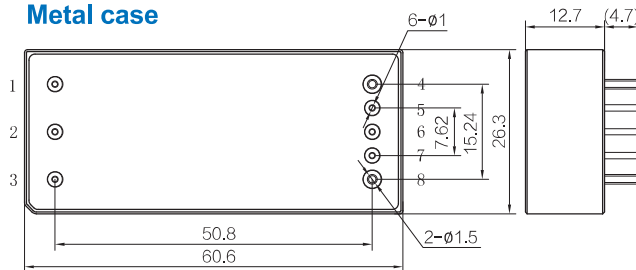


■ 1/8 Brick DC-DC Converter

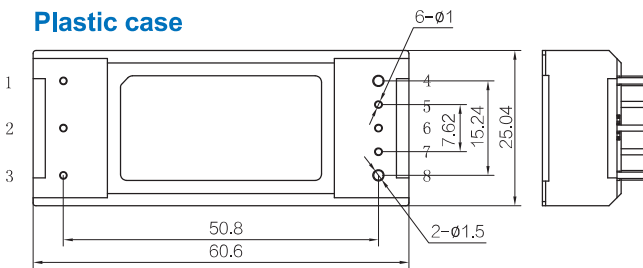
- High power density up to 140W/inch³
- High efficiency up to 93%
- 4:1 input ratio
- Trim range: 90%~110%
- Monotonic start-up into pre-bias load
- Input under / over voltage protection
- Output over-current protection
- Output over voltage protection
- Over temperature protection
- Logic control
- Open frame or encapsulated

Mechanical Specifications

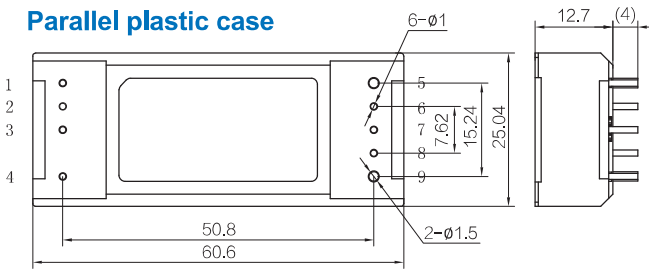
Metal case



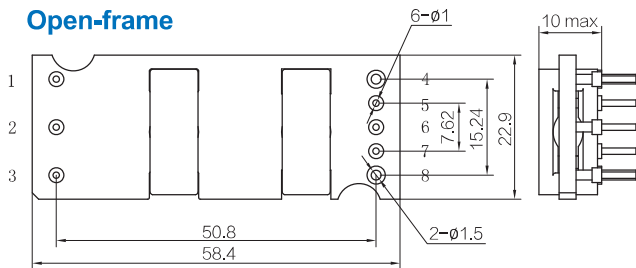
Plastic case



Parallel plastic case



Open-frame



Unit: mm Deviation: .X=±0.25 .XX=±0.10 Pin: ±0.25



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

Specification Parameter

Parameter	Unit	EEBS120-048S3V3	EEBS120-048S05	EEBS120-048S08	EEBS120-048S12	
Input	Input voltage	Vdc		-0.3~80		
	Input voltage (100ms)	Vdc		-0.3~100		
	Operating voltage	Vdc		18~75		
	Remote off input current	mA		9		
	Inrush current transient	A ² s		-		
	Input opening voltage	Vdc		17		
	Input On and Off voltage	Vdc		15		
	Lockout hysteresis voltage	Vdc		2		
	Input turn off voltage	Vdc		81		
	Input current (max.)	A		8.9		
	Input current (no load)	mA		100		
	Switching frequency	kHz		350		
	Output	Output voltage	Vdc	3.3	5	8
Output current		A	-	-	-	-
Output power (max.)		W		120		
Typical efficiency		%	92	93	93	93
Output voltage trim range		%Vo, set		-20~10		
Output voltage regulation		%Vo, set		±0.25		
Load regulation		%Vo, set		±0.25		
Regulation over temperature		%Vo, set		3		
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		60.5*25.04*12.7		