



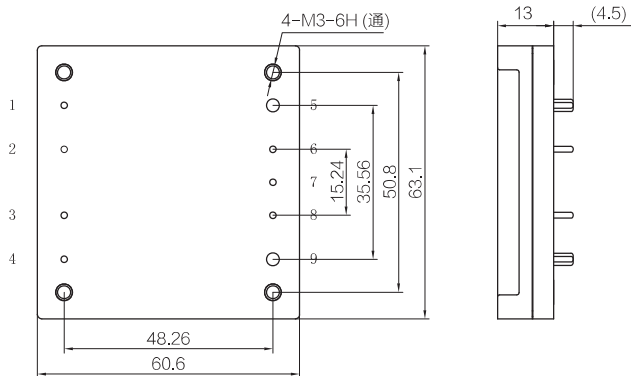
■ 1/2 Brick DC-DC Converter

- High power density up to 169W/inch³
- High efficiency up to 93%
- Trim range:90%–110%
- High voltage type for optional
- 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



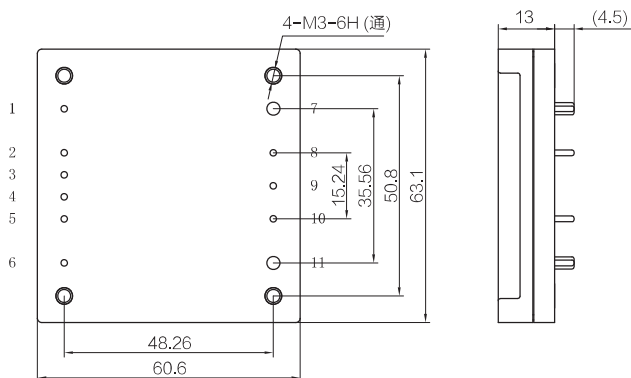
Mechanical Specifications

Metal case 200W / 500W



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

Metal case 400W



Pin	Function
1	-VIN
2	Ishare
3	Start sync
4	Clock sync
5	ON/OFF
6	+VIN
7	-VO
8	-S
9	TRIM
10	+S
11	+VO

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

Specification Parameter

Parameter	Unit	EHS500-028S12	EHS500-028S24	EHS500-028S28	
Input	Input voltage	Vdc		-0.3~45	
	Input voltage (100ms)	Vdc		-0.3~50	
	Operating voltage	Vdc		16~40	
	Remote off input current	mA		12	
	Inrush current transient	A ² s		-	
	Input opening voltage	Vdc		15	
	Input On and Off voltage	Vdc		14	
	Lockout hysteresis voltage	Vdc		1	
	Input turn off voltage	Vdc		43	
	Input current (max.)	A		35	
	Input current (no load)	mA		350	
	Switching frequency	kHz		150	
	Output	Output voltage	Vdc	12	24
Output current		A	-	-	-
Output power (max.)		W		500	
Typical efficiency		%		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		1.5	
Output ripple and noise					
Full load: PK-PK		%Vo, set		1	
RMS		mVrms		100	
Output capacitance		uF		5000	
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		-50~100
		Storage temperature	°C		-55~125
	Input/output isolation voltage	Vdc		2250	
	Size (L*W*H)	mm		63.1*60.6*13	