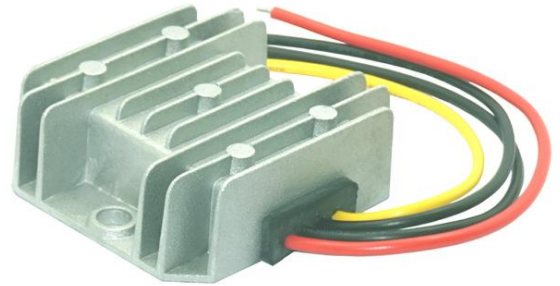


Step-Down/Up 8-40V to 12V 3A DC-DC Converters 36W

Features:

1. 100% full power & stable current output
2. 100% Imported components
3. Wide input voltage from 8-40Vdc
4. 100% waterproof & anti-shock protection, Ultra compact size, light weight
5. Industry grade step-down converter, efficiency up to 87%
6. Waterproof level: IP68
7. According CE(EN61000) / RoHS design
8. Die-cast aluminum shell, epoxy potting, Cooling by free air convection,
9. Protections: Over-current, Over-voltage, and Over-temperature
Auto-recovery when device is back to normal operating
10. Non-Isolated Module
11. 1 year warranty



WG8-40S12 series is a compact size high reliability power converter offered by SZWENGGAO, It features wide input voltage, low power consumption, high efficiency, high reliability. It can work safely and reliability in $-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$. It widely used in industrial, automotive, instruments, telecommunication and civil applications.

Input Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input voltage range	--	8	12/24	40	VDC
Input current	--	6.8	3.4A @ 12V	1.0	A
No-load loss	--	20	25	30	mA
Input low voltage protection	Recovery point		8	8.5	VDC
	Under voltage point	6	8		VDC
Efficiency	--	80	85	87	%
Input filter	--	Without capacitances			
Hot plug	--	Unavailable			

Output Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Output voltage accuracy	Full load test, input volt range	--	± 1	± 2	%
Line regulation	Full load	--	± 0.2	± 0.5	%
Load regulation	10%~100% load	--	± 0.3	± 0.5	%
Ripple	20 MHz bandwidth	90	100	120	mVp-p
Switch frequency	--	150	160	170	KHz
Noise (peak-to-peak)	20 MHz bandwidth	100	120	150	mV

Protection Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Over temperature protection	Chip (built-in protection)	120	125	130	°C
Overcurrent protection	--	6A@8V	8A@12V	12A@24V	A
Overvoltage protection	Item will be damage @ 42Vdc	--	40	42	V
Short-circuit protection	Hiccup, continuous, self-recovery	--	--	30	mΩ

Security Features

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Insulation withstand voltage	--	--	--	500	V
Insulation resistance	test @ 500V	--	10	--	MΩ
Isolate the capacitor	Non-isolated module	--	--	--	PF

General Specifications

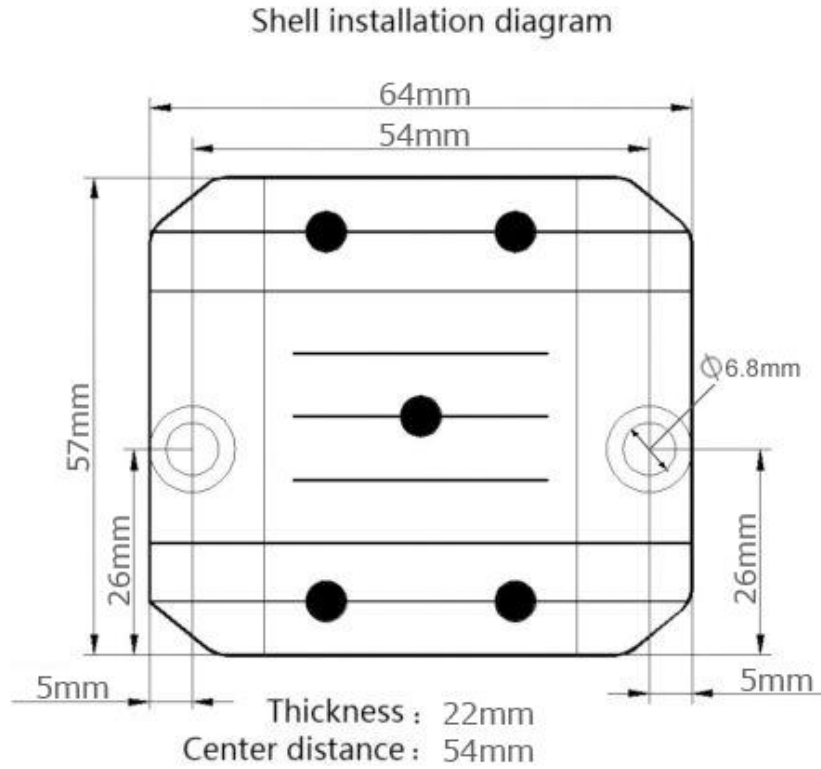
Item	Operating Conditions	Min.	Typ.	Max.	Unit
Working temperature	--	-55	--	100	°C
Storage temperature	--	-65	--	125	°C
Temperature coefficient	-40°C ~ +80°C	--	0.003	0.005	%/°C
Relative humidity	No condensation	20	--	100	%RH
Lifetime		--	--	100,000	Hours

Physical Specifications

Casing material	Die-cast aluminum shell
Input cable (positive "+")	Red ; 18AWG; 16.5cm length
Input cable (negative "-")	Black ; 18AWG; 16.5cm length
Output cable (positive "+")	Yellow ; 18AWG; 16.5cm length
Output cable (negative "-")	Black ; 18AWG; 16.5cm length
Weight	108g
Cooling method	Free convection
Packing	White box



Dimension



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