

RoHS
Compliant

On Board Type DC-DC converter

SU/SUC/^{NEW}SUT series

Compact Size for all-applications Isolated DC-DC converter

5 Year warranty

Patent Pending

COSEL

www.cosel.co.jp/en



SU/SUC series 1.5-10W

NEW SUT series 3-10W

Compact Size for all applications
Isolated DC-DC converter

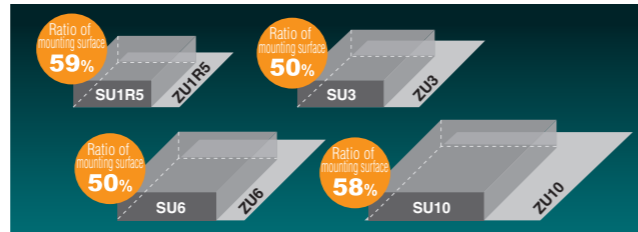
Covers all 264 Models

Most Compact Size Isolated DC/DC Converter in the World

Ultra small and light weight (Compared to ZU series). Higher reliability and efficiency. Finding the best choice in a rich line-up with the most variations worldwide. Complies with RoHS.

Minimized mounting surface on PCB

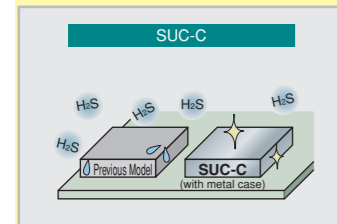
SUC series has a 60% smaller mounting surface footprint than the previous model, ZU series.



SUT series has a 70% smaller mounting surface footprint than the SUC series. (SUT3/SUT6/SUT10)

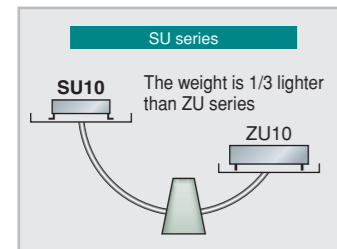


NEW Conformal Coating Option protects against sulfur gas and other harsh environments

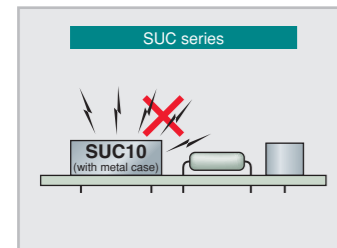


Gold plated PCB and sulfur gas stand resistor are used for SU series, and optional conformal coating is available for sulfur gas environment. (Conformal Coating (C-Option) available with SUC series)

Sufficiently light weight and low EMI



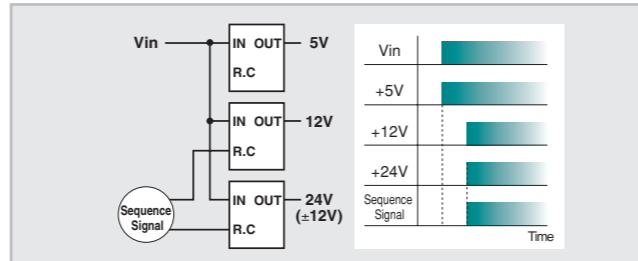
Unfilled silicon with high efficiency design for light weight.



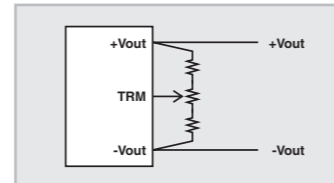
Metal case option reduces EMI noise problems influenced by external components.

Remote On/Off and Output Voltage Adjustment

Remote On/Off is useful for Output Voltage Sequence organization during Start-up (Excluding SU_1R5)

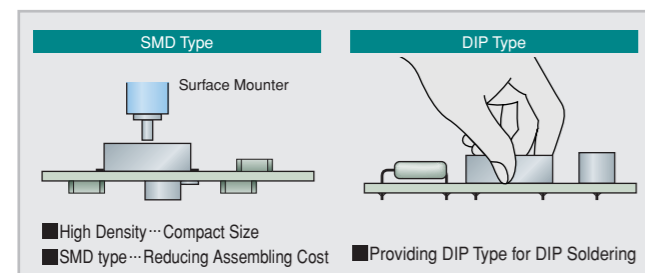


Output Voltage is adjustable with a small number of external components.



Providing SMD Type

Providing 2 Types (SMD•DIP), both pin structures allow flexible design ideas for minimizing mechanical size and cost reduction. (SUC with Conformal Coating option and SUT are available with DIP only.)



Others

- Wide operational Temperature (-40 to +85°C)
- Built-in Fuse in Primarily Circuit
- Adopted Lead Free Soldering
- No use of Aluminum Electrolytic Capacitor and Tantalum Electrolytic Capacitor
- Safety Standard (UL, C-UL, EN) Approved ※1
- 5 Year Warranty

※1 Excluding: SUC-C(with Conformal Coating)

SU series (Rugged PCB Type)

Item	Model	Input Voltage	Output Voltage [V] / Output Current [A]						Dimensions [mm] W×H×D
			Single Output (S)				Dual Output (W)		
			3.3 [V]	5 [V]	12 [V]	15 [V]	±12 (+24) [V]	±15 (+30) [V]	
	SU_1R5	DC4.5 to 9	0.4	0.3	0.13	0.1	0.065	0.05	21.4×6.5×12.2
		DC9 to 18	0.4	0.3	0.13	0.1	0.065	0.05	
		DC18 to 36	0.4	0.3	0.13	0.1	0.065	0.05	
		DC36 to 76	0.4	0.3	0.13	0.1	0.065	0.05	
	SU_3	DC4.5 to 9	0.6	0.6	0.25	0.2	0.13	0.1	24×6.5×15.1
		DC9 to 18	0.6	0.6	0.25	0.2	0.13	0.1	
		DC18 to 36	0.6	0.6	0.25	0.2	0.13	0.1	
		DC36 to 76	0.6	0.6	0.25	0.2	0.13	0.1	
	SU_6	DC4.5 to 9	1.2	1	0.5	0.4	0.25	0.2	31.6×6.5×18.1
		DC9 to 18	1.35	1.2	0.5	0.4	0.25	0.2	
		DC18 to 36	1.35	1.2	0.5	0.4	0.25	0.2	
		DC36 to 76	1.35	1.2	0.5	0.4	0.25	0.2	
	SU_10	DC4.5 to 9	2.6	2	0.9	0.7	0.45	0.35	39.2×6.5×21.0
		DC9 to 18	2.6	2	1	0.8	0.45	0.35	
		DC18 to 36	2.6	2	1	0.8	0.45	0.35	
		DC36 to 76	2.6	2	1	0.8	0.45	0.35	

SUC series (with Case), SUC-C (with Conformal Coating)

Item	Model	Input Voltage	Output Voltage [V] / Output Current [A]						Dimensions [mm] W×H×D
			Single Output (S)				Dual Output (W)		
			3.3 [V]	5 [V]	12 [V]	15 [V]	±12 (+24) [V]	±15 (+30) [V]	
	SUC_1R5	DC4.5 to 9	0.4	0.3	0.13	0.1	0.065	0.05	22.4×7.0×13.2
		DC9 to 18	0.4	0.3	0.13	0.1	0.065	0.05	
		DC18 to 36	0.4	0.3	0.13	0.1	0.065	0.05	
		DC36 to 76	0.4	0.3	0.13	0.1	0.065	0.05	
	SUC_3	DC4.5 to 9	0.6	0.6	0.25	0.2	0.13	0.1	25×7.0×16.1
		DC9 to 18	0.6	0.6	0.25	0.2	0.13	0.1	
		DC18 to 36	0.6	0.6	0.25	0.2	0.13	0.1	
		DC36 to 76	0.6	0.6	0.25	0.2	0.13	0.1	
	SUC_6	DC4.5 to 9	1.2	1	0.5	0.4	0.25	0.2	32.6×7.0×19.1
		DC9 to 18	1.35	1.2	0.5	0.4	0.25	0.2	
		DC18 to 36	1.35	1.2	0.5	0.4	0.25	0.2	
		DC36 to 76	1.35	1.2	0.5	0.4	0.25	0.2	
	SUC_10	DC4.5 to 9	2.6	2	0.9	0.7	0.45	0.35	40.2×7.0×22.0
		DC9 to 18	2.6	2	1	0.8	0.45	0.35	
		DC18 to 36	2.6	2	1	0.8	0.45	0.35	
		DC36 to 76	2.6	2	1	0.8	0.45	0.35	

SUT series (Vertical Type)

Item	Model	Input Voltage	Output Voltage [V] / Output Current [A]						Dimensions [mm] W×H×D
			Single Output (S)				Dual Output (W)		
			3.3 [V]	5 [V]	12 [V]	15 [V]	±12 (+24) [V]	±15 (+30) [V]	
	SUT_3	DC4.5 to 9	0.6	0.6	0.25	0.2	0.13	0.1	30×23.4×9.15
		DC9 to 18	0.6	0.6	0.25	0.2	0.13	0.1	
		DC18 to 36	0.6	0.6	0.25	0.2	0.13	0.1	
		DC36 to 76	0.6	0.6	0.25	0.2	0.13	0.1	
	SUT_6	DC4.5 to 9	1.2	1	0.5	0.4	0.25	0.2	37.6×26.4×9.15
		DC9 to 18	1.35	1.2	0.5	0.4	0.25	0.2	
		DC18 to 36	1.35	1.2	0.5	0.4	0.25	0.2	
		DC36 to 76	1.35	1.2	0.5	0.4	0.25	0.2	
	SUT_10	DC4.5 to 9	2.6	2	0.9	0.7	0.45	0.35	45.2×29.3×9.15
		DC9 to 18	2.6	2	1	0.8	0.45	0.35	
		DC18 to 36	2.6	2	1	0.8	0.45	0.35	
		DC36 to 76	2.6	2	1	0.8	0.45	0.35	