



DC-DC Converter

DC3-5W(U)-**S(D)**/G Series

High Performance

Features

- Efficiency up to 82% Typ
- 500VDC/1500VDC isolation
- Wide Input 2:1/4:1
- Industry standard required
- Internal SMD design
- Short circuit protection
- Wide temperature performance



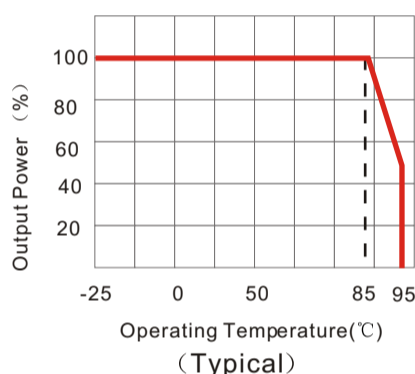
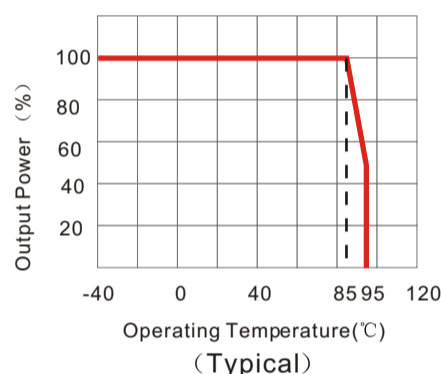
Specifications

Efficiency		82% Typ
Load Voltage Regulation	Singl Output	0.3% Max
	Dual Output	2.0% Max
Line Voltage Regulation		0.3% Max
Isolation Voltage	Input-Output	500V/1500V
Isolation Resistance		20M Ω
Isolation Capacitance		100pF
Operating Temperature range (Free Air Convection)	/-	-25 $^{\circ}$ C~+85 $^{\circ}$ C
	/G	-40 $^{\circ}$ C~+85 $^{\circ}$ C
Storage Temperature Range	/-	-40 $^{\circ}$ C~+105 $^{\circ}$ C
	/G	-55 $^{\circ}$ C~+125 $^{\circ}$ C
Operating Frequency		300kHz Typ
Relative Humidity		95% RH
Case Material		Metal
MTBF	+25 $^{\circ}$ C	1 \times 10 ⁵ hours
	+80 $^{\circ}$ C	5 \times 10 ⁴ hours

Output Characteristics

Output Voltage Accuracy	Positive Voltage	1% Typ
	Negative Voltage	3% Max
Short circuit Protection		Continuous, Automatic Recovery
Ripple & Noise	20MHz BW	\leq 50mVp-p Typ \leq 150mVp-p Max

Derating-Graph



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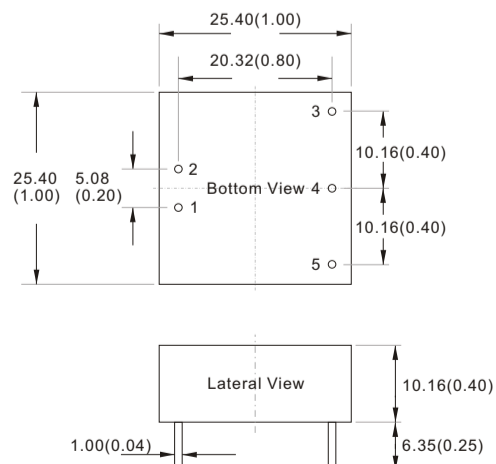


DC-DC Converter

Selection Guide

Order Code	Input Votage(VDC) Range	Output Votage (VDC)	Output Current (mA)
DC3W- * *S05/G	5V(4.5~9)	5	1000
DC3W- * *S03/G		3.3	909
DC3W- * *S05/G	12V	5	600
DC3W- * *S09/G	(9~18)	9	333
DC3W- * *S12/G		12	250
DC3W- * *S15/G	24V	15	200
DC3W- * *S24/G	(18~36)	24	125
DC3W- * *D05/G		\pm 5	\pm 300
DC3W- * *D12/G	48V	\pm 12	\pm 125
DC5W- * *S05/G	(36~72)	5	1000
DC5W- * *S09/G		9	555
DC5W- * *S12/G	110V	12	416
DC5W- * *S15/G	(72~160)	15	333
DC5W- * *S24/G		24	208
DC5W- * *D05/G		\pm 5	\pm 500
DC5W- * *D12/G		\pm 12	\pm 208
DC3U- * *S05/G	24V	5	600
DC3U- * *S12/G	(9~36)	12	250
DC3U- * *S24/G		24	125
DC5U- * *S05/G	48V	5	1000
DC5U- * *S12/G	(18~72)	12	416
DC5U- * *S24/G		24	208

Mechanical Dimensions



Unit: mm(inch)

Pin Connections

Pin	1	2	3	4	5
Single	-Vin	+Vin	+Vo	NP	-Vo
Dual	-Vin	+Vin	+Vo	COM	-Vo

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