COSEL DC-DC Converters PCB Mount type

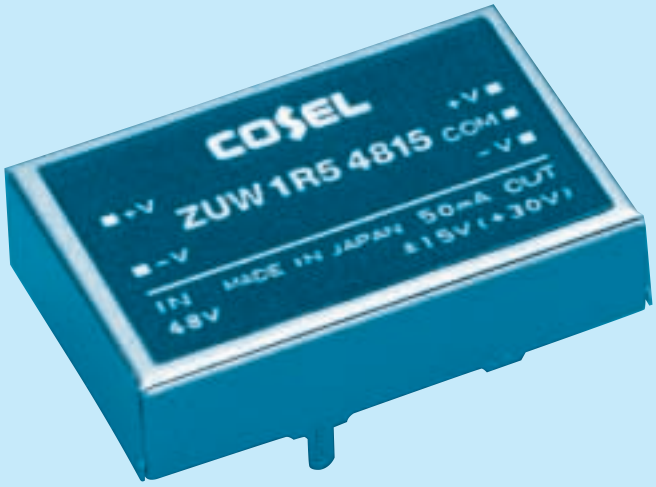
ZUW1R5

Ordering information

ZU	W	1R5	12	12	
①	②	③	④	⑤	

①Series name
②Dual output
③Output wattage
④Input voltage
⑤Output voltage

RoHS



MODEL		ZUW1R50512	ZUW1R50515	ZUW1R51212	ZUW1R51215	ZUW1R52412	ZUW1R52415	ZUW1R54812	ZUW1R54815
MAX OUTPUT WATTAGE[W]		1.56	1.50	1.56	1.50	1.56	1.50	1.56	1.50
DC OUTPUT	VOLTAGE[V]	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30
	CURRENT[A]	0.065	0.050	0.065	0.050	0.065	0.050	0.065	0.050

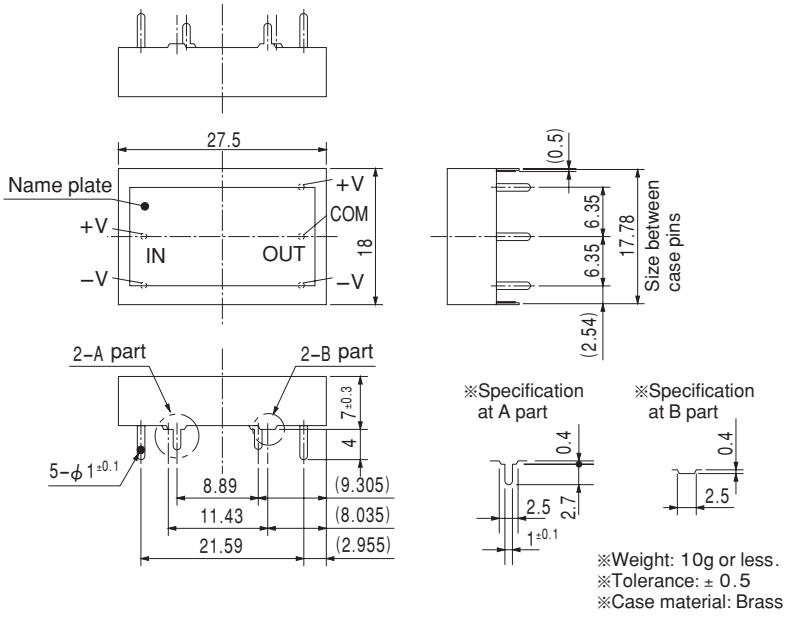
SPECIFICATIONS

Output pins can be connected in series to make a 24V/30V output.

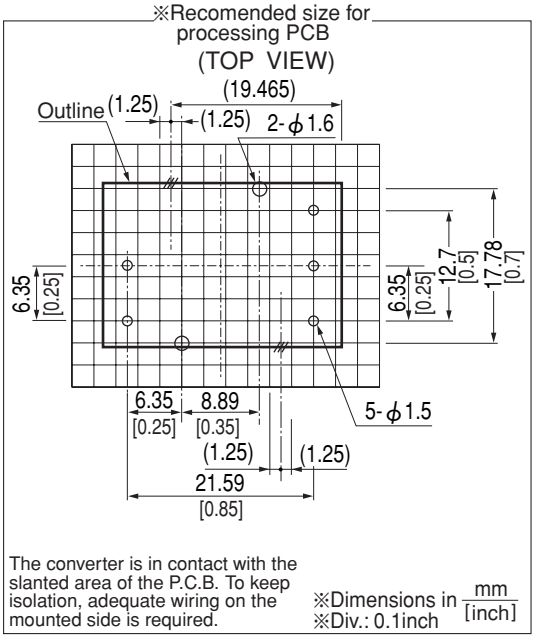
	MODEL	ZUW1R50512	ZUW1R50515	ZUW1R51212	ZUW1R51215	ZUW1R52412	ZUW1R52415	ZUW1R54812	ZUW1R54815
INPUT	VOLTAGE[V]	DC4.5 - 9		DC9 - 18		DC18 - 36		DC36 - 72	
	CURRENT[A] *1	0.466typ	0.448typ	0.183typ	0.176typ	0.092typ	0.088typ	0.046typ	0.044typ
	EFFICIENCY[%] *1	67typ	67typ	71typ	71typ	71typ	71typ	71typ	71typ
OUTPUT	VOLTAGE[V]	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)
	CURRENT[A]	0.065	0.050	0.065	0.050	0.065	0.050	0.065	0.050
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max
	LOAD REGULATION[mV]	600max	750max	600max	750max	600max	750max	600max	750max
	RIPPLE[mVp-p] *2	120max	120max	120max	120max	120max	120max	120max	120max
	RIPPLE NOISE[mVp-p] *2	150max	150max	150max	150max	150max	150max	150max	150max
	TEMPERATURE REGULATION[mV] -20 to +55℃	150max	180max	150max	180max	150max	180max	150max	180max
	DRIFT[mV] *3	50max	60max	50max	60max	50max	60max	50max	60max
	START-UP TIME[ms]	20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed							
	OUTPUT VOLTAGE SETTING[V]	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
ISOLATION	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	INPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	OUTPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +71℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max							
	VIBRATION	10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT	490.3m/s² (50G), 11ms, once each X, Y and Z axis							
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1							
OTHERS	CASE SIZE/WEIGHT	27.5×7×18mm (W×H×D) / 10g max							
	COOLING METHOD	Convection							

*1 Rated input 5V, 12V, 24V or 48V DC, Io=100%.
*2 Measured by 20MHz oscilloscope.
*3 The drift is a change at 25℃ of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.
* The output specification is at ±12V and ±15V.
* Series/Parallel operation with other model is not possible.

External view



※Weight: 10g or less.
※Tolerance: ± 0.5
※Case material: Brass

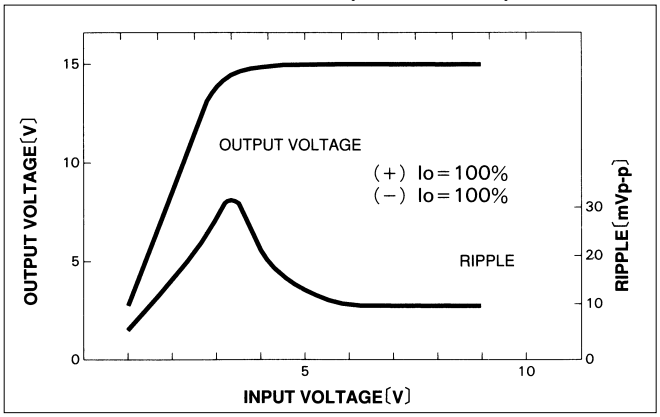


The converter is in contact with the slanted area of the P.C.B. To keep isolation, adequate wiring on the mounted side is required.

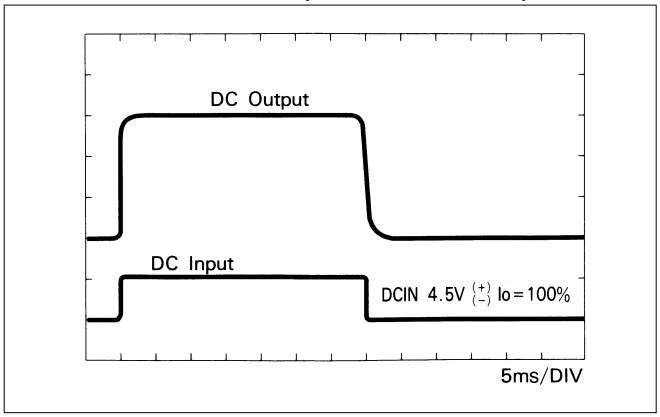
※Dimensions in mm [inch]
※Div.: 0.1inch

Performance data

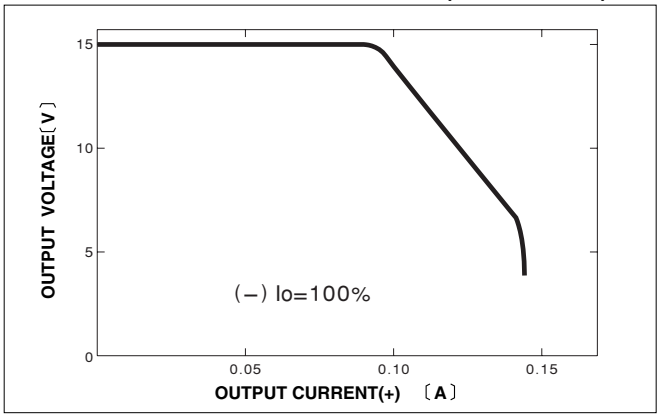
■STATIC CHARACTERISTICS (ZUW1R50515)



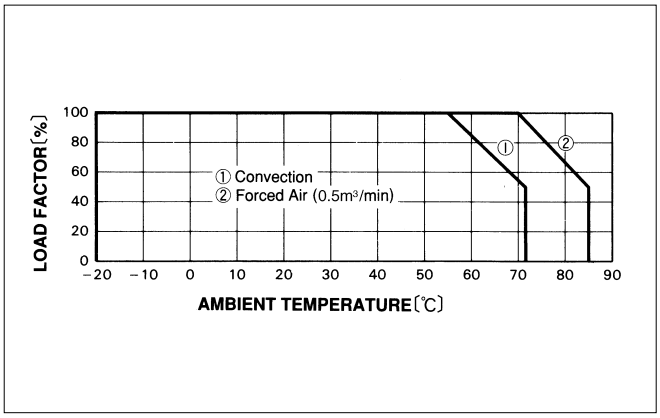
■RISE TIME & FALL TIME (ZUW1R50515:+15V)



■OVERCURRENT CHARACTERISTICS (ZUW1R50515)



■DERATING CURVE



ZU/ZT

COSEL DC-DC Converters PCB Mount type

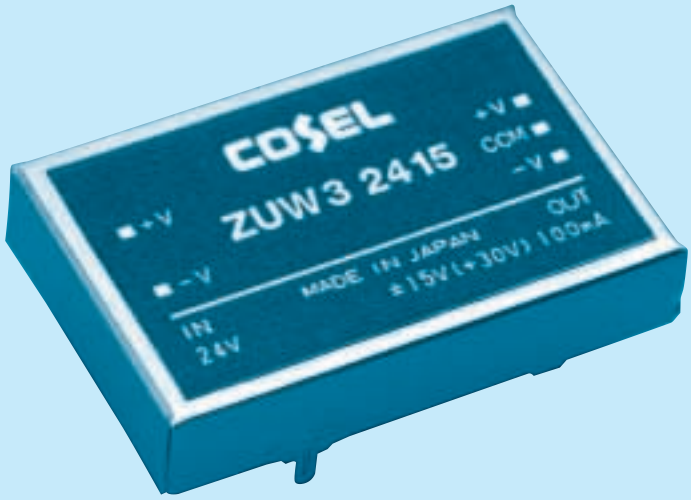
ZUW3

Ordering information

ZU	W	3	12	12	
①	②	③	④	⑤	

①Series name
②Dual output
③Output wattage
④Input voltage
⑤Output voltage

RoHS



MODEL		ZUW30512	ZUW30515	ZUW31212	ZUW31215	ZUW32412	ZUW32415	ZUW34812	ZUW34815
MAX OUTPUT WATTAGE[W]		3.12	3.00	3.12	3.00	3.12	3.00	3.12	3.00
DC OUTPUT	VOLTAGE[V]	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30
	CURRENT[A]	0.13	0.10	0.13	0.10	0.13	0.10	0.13	0.10

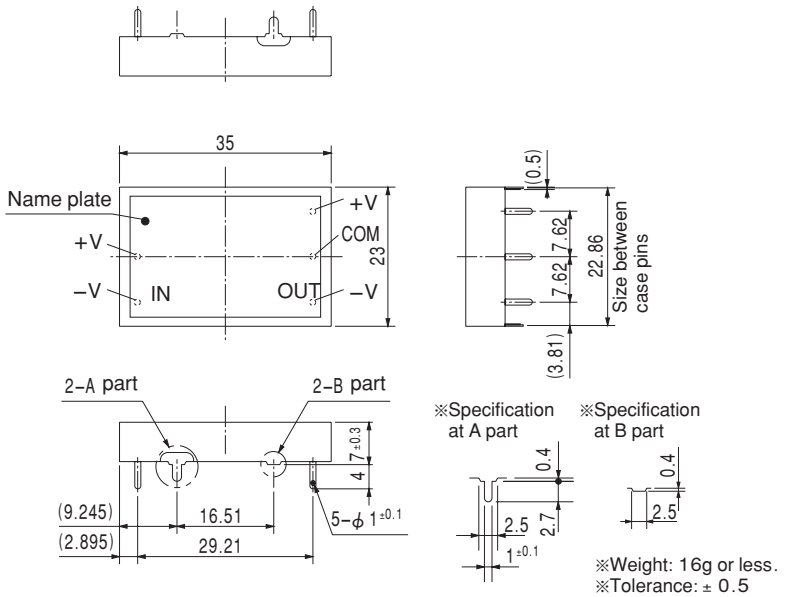
SPECIFICATIONS

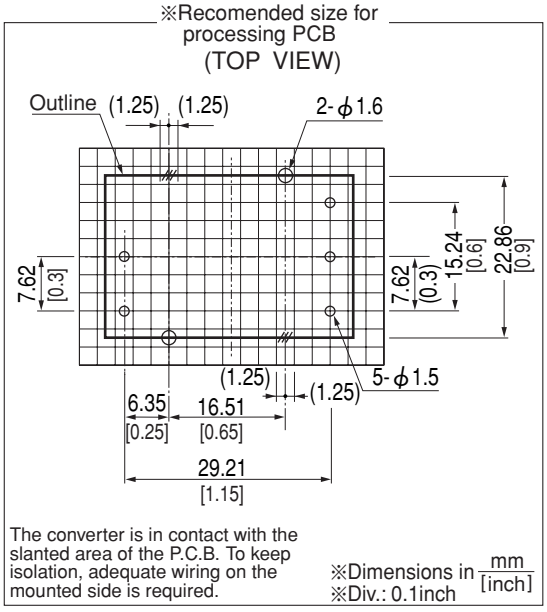
Output pins can be connected in series to make a 24V/30V output.

	MODEL	ZUW30512	ZUW30515	ZUW31212	ZUW31215	ZUW32412	ZUW32415	ZUW34812	ZUW34815
INPUT	VOLTAGE[V]	DC4.5 - 9		DC9 - 18		DC18 - 36		DC36 - 72	
	CURRENT[A] *1	0.891typ	0.857typ	0.351typ	0.338typ	0.176typ	0.169typ	0.087typ	0.083typ
	EFFICIENCY[%] *1	70typ	70typ	74typ	74typ	74typ	74typ	75typ	75typ
OUTPUT	VOLTAGE[V]	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)
	CURRENT[A]	0.13	0.10	0.13	0.10	0.13	0.10	0.13	0.10
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max
	LOAD REGULATION[mV]	600max	750max	600max	750max	600max	750max	600max	750max
	RIPPLE[mVp-p] *2	120max	120max	120max	120max	120max	120max	120max	120max
	RIPPLE NOISE[mVp-p] *2	150max	150max	150max	150max	150max	150max	150max	150max
	TEMPERATURE REGULATION[mV] -20 to +55℃	150max	180max	150max	180max	150max	180max	150max	180max
	DRIFT[mV] *3	50max	60max	50max	60max	50max	60max	50max	60max
	START-UP TIME[ms]	20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed							
	OUTPUT VOLTAGE SETTING[V]	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
ISOLATION	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	INPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	OUTPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +71℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max							
	VIBRATION	10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT	490.3m/s² (50G), 11ms, once each X, Y and Z axis							
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1							
OTHERS	CASE SIZE/WEIGHT	35×7×23mm (W×H×D) / 16g max							
	COOLING METHOD	Convection							

*1 Rated input 5V, 12V, 24V or 48V DC, Io=100%.
*2 Measured by 20MHz oscilloscope.
*3 The drift is a change at 25℃ of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.
* The output specification is at ±12V and ±15V.
* Series/Parallel operation with other model is not possible.

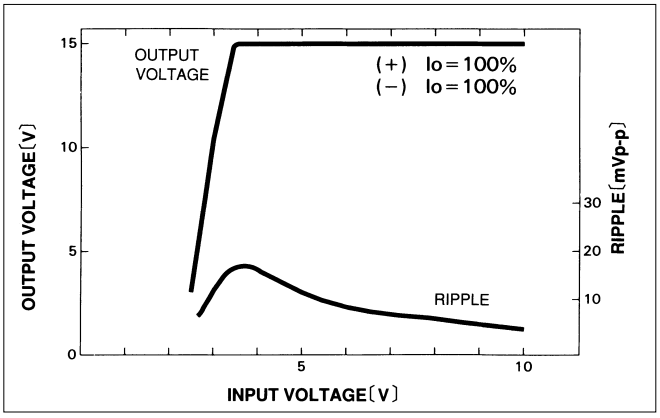
External view



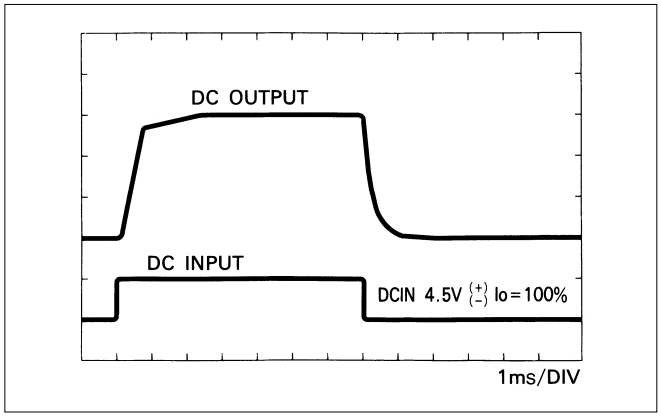


Performance data

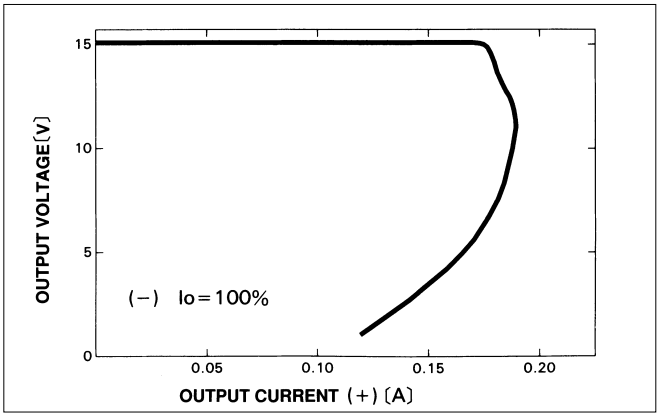
■STATIC CHARACTERISTICS (ZUW30515)



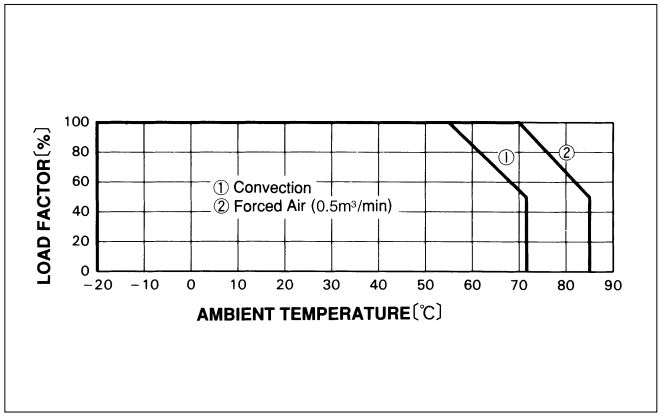
■RISE TIME & FALL TIME (ZUW30515:+15V)



■OVERCURRENT CHARACTERISTICS (ZUW30515)



■DERATING CURVE

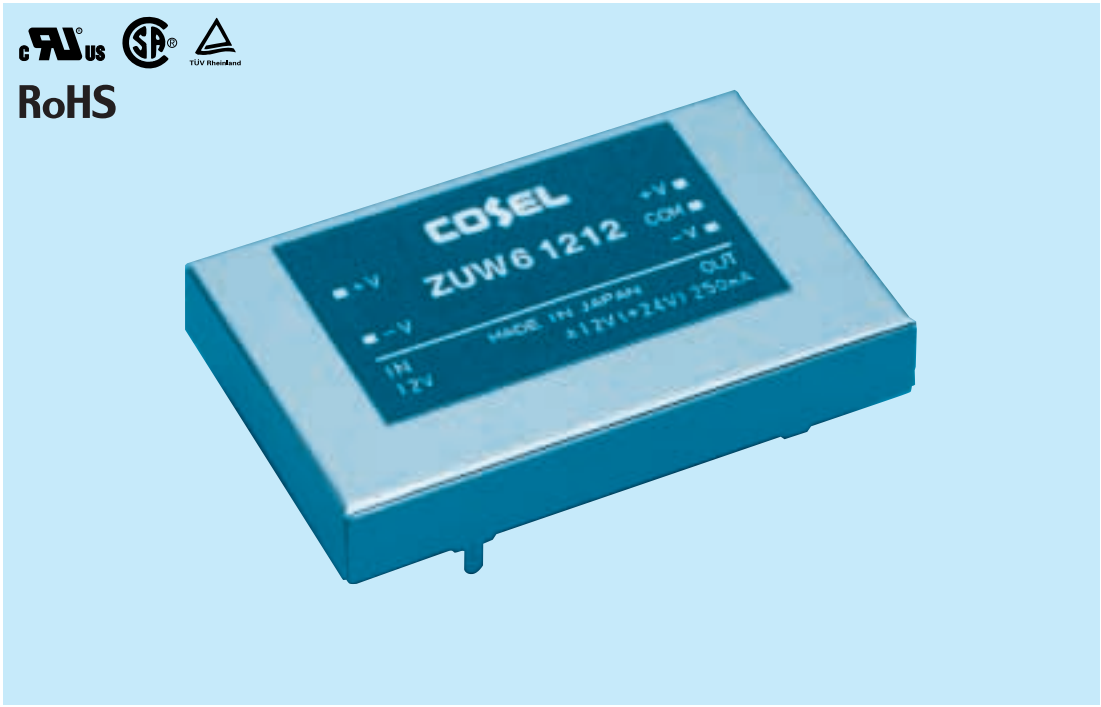


COSEL DC-DC Converters PCB Mount type

ZUW6

Ordering information

ZU	W	6	12	12	
①	②	③	④	⑤	



①Series name
②Dual output
③Output wattage
④Input voltage
⑤Output voltage

MODEL		ZUW60512	ZUW60515	ZUW61212	ZUW61215	ZUW62412	ZUW62415	ZUW64812	ZUW64815
MAX OUTPUT WATTAGE[W]		6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
DC OUTPUT	VOLTAGE[V]	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30
	CURRENT[A]	0.25	0.20	0.25	0.20	0.25	0.20	0.25	0.20

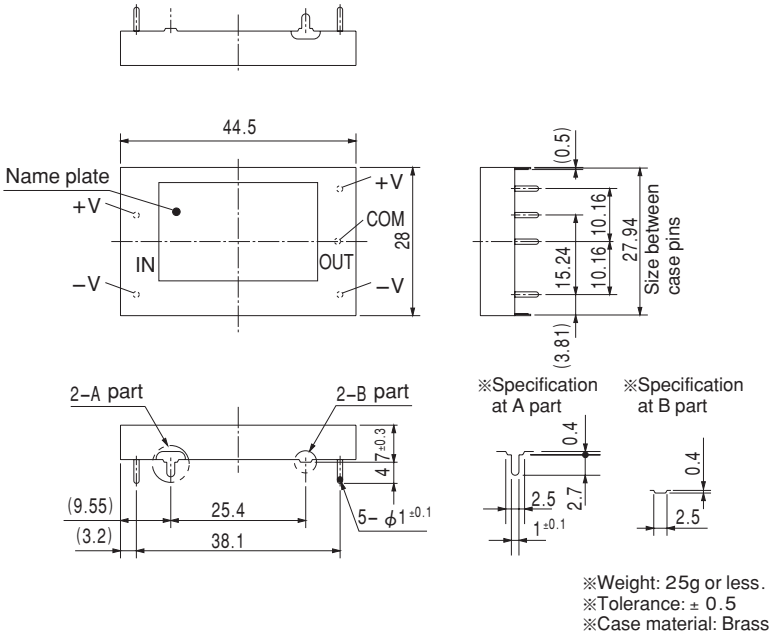
SPECIFICATIONS

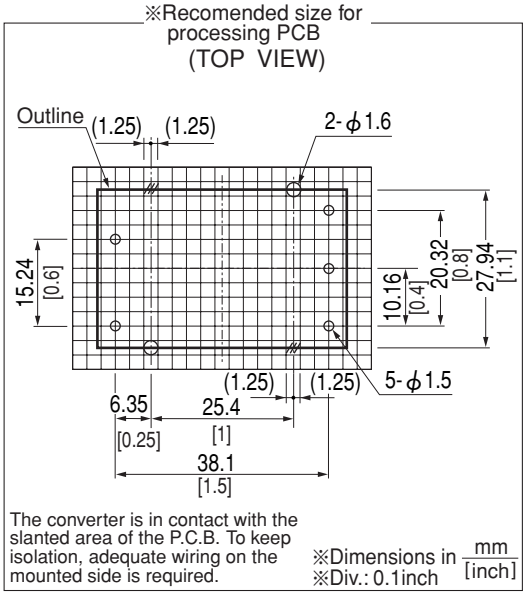
Output pins can be connected in series to make a 24V/30V output.

	MODEL	ZUW60512	ZUW60515	ZUW61212	ZUW61215	ZUW62412	ZUW62415	ZUW64812	ZUW64815
INPUT	VOLTAGE[V]	DC4.5 - 9		DC9 - 18		DC18 - 36		DC36 - 72	
	CURRENT[A] *1	1.60typ	1.60typ	0.65typ	0.65typ	0.33typ	0.33typ	0.17typ	0.17typ
	EFFICIENCY[%] *1	75typ	75typ	77typ	77typ	77typ	77typ	77typ	77typ
OUTPUT	VOLTAGE[V]	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)
	CURRENT[A]	0.25	0.20	0.25	0.20	0.25	0.20	0.25	0.20
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max
	LOAD REGULATION[mV]	600max	750max	600max	750max	600max	750max	600max	750max
	RIPPLE[mVp-p] *2	120max	120max	120max	120max	120max	120max	120max	120max
	RIPPLE NOISE[mVp-p] *2	150max	150max	150max	150max	150max	150max	150max	150max
	TEMPERATURE REGULATION[mV] -20 to +55℃	150max	180max	150max	180max	150max	180max	150max	180max
	DRIFT[mV] *3	50max	60max	50max	60max	50max	60max	50max	60max
	START-UP TIME[ms]	20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed							
	OUTPUT VOLTAGE SETTING[V]	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
ISOLATION	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	INPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	OUTPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +71℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max							
	VIBRATION	10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT	490.3m/s² (50G), 11ms, once each X, Y and Z axis							
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1							
OTHERS	CASE SIZE/WEIGHT	44.5×7×28mm (W×H×D) / 25g max							
	COOLING METHOD	Convection							

*1 Rated input 5V, 12V, 24V or 48V DC, Io=100%.
*2 Measured by 20MHz oscilloscope.
*3 The drift is a change at 25℃ of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.
* The output specification is at ±12V and ±15V.
* Series/Parallel operation with other model is not possible.

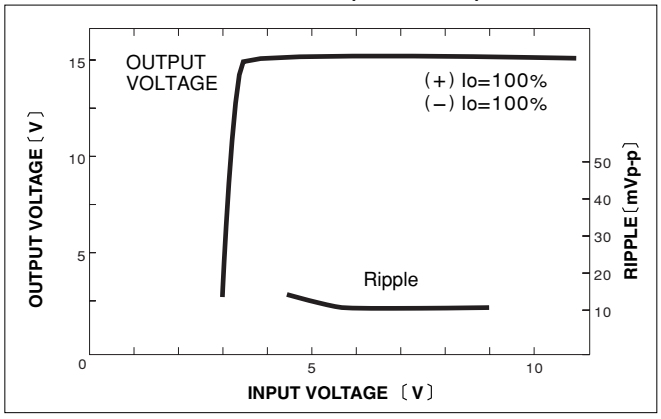
External view



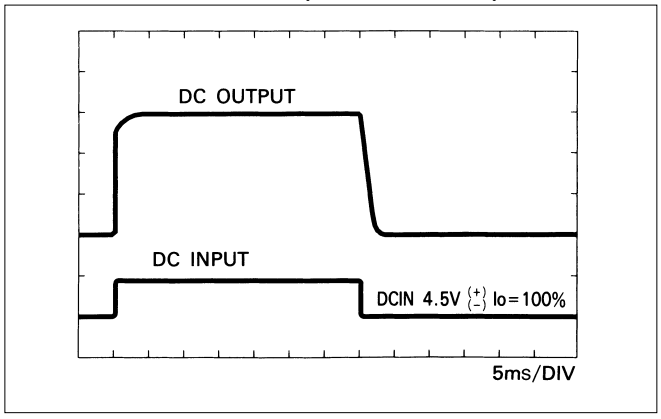


Performance data

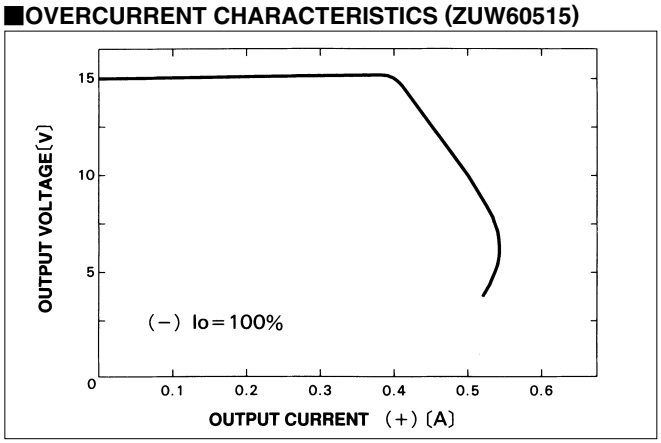
■STATIC CHARACTERISTICS (ZUW60515)



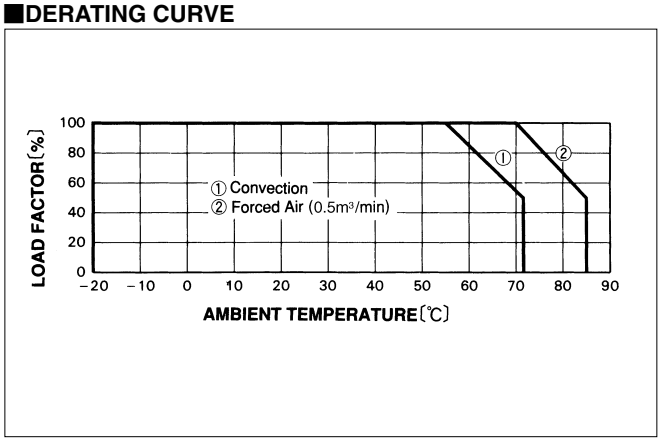
■RISE TIME & FALL TIME (ZUW60515:+15V)



■OVERCURRENT CHARACTERISTICS (ZUW60515)



■DERATING CURVE



COSEL DC-DC Converters PCB Mount type

ZUW10

Ordering information

ZU	W	10	12	12	
①	②	③	④	⑤	

①Series name
②Dual output
③Output wattage
④Input voltage
⑤Output voltage

RoHS

MODEL		ZUW100512	ZUW100515	ZUW101212	ZUW101215	ZUW102412	ZUW102415	ZUW104812	ZUW104815
MAX OUTPUT WATTAGE[W]		8.4	9.0	10.8	10.5	10.8	10.5	10.8	10.5
DC OUTPUT	VOLTAGE[V]	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30
	CURRENT[A]	0.35	0.30	0.45	0.35	0.45	0.35	0.45	0.35

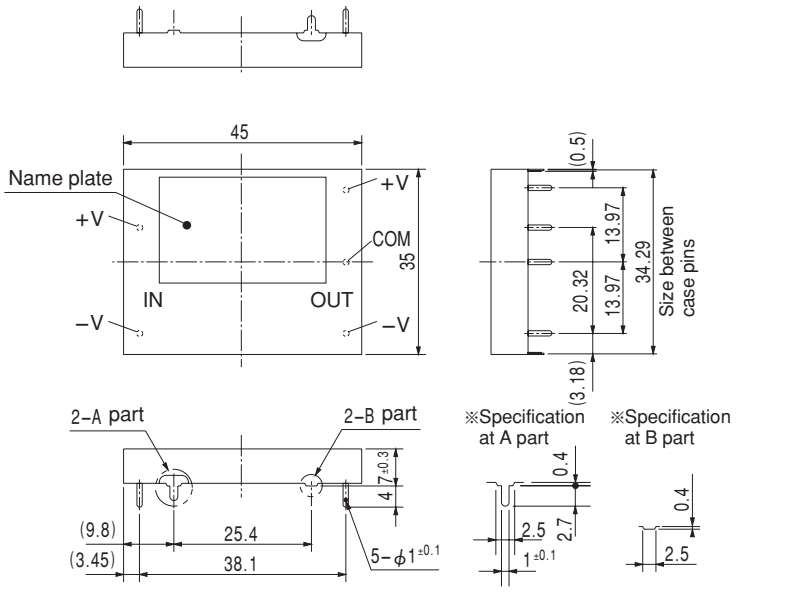
SPECIFICATIONS

Output pins can be connected in series to make a 24V/30V output.

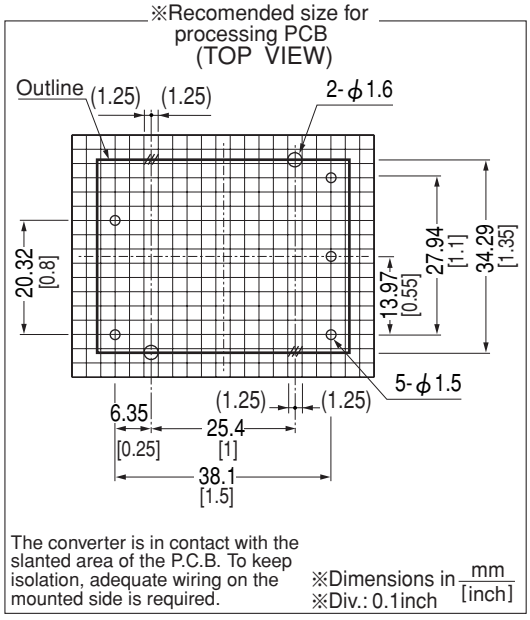
	MODEL	ZUW100512	ZUW100515	ZUW101212	ZUW101215	ZUW102412	ZUW102415	ZUW104812	ZUW104815
INPUT	VOLTAGE[V]	DC4.5 - 9		DC9 - 18		DC18 - 36		DC36 - 72	
	CURRENT[A] *1	2.24typ	2.40typ	1.12typ	1.09typ	0.56typ	0.55typ	0.28typ	0.28typ
	EFFICIENCY[%] *1	75typ	75typ	81typ	81typ	81typ	81typ	81typ	81typ
OUTPUT	VOLTAGE[V]	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)
	CURRENT[A]	0.35	0.30	0.45	0.35	0.45	0.35	0.45	0.35
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max
	LOAD REGULATION[mV]	600max	750max	600max	750max	600max	750max	600max	750max
	RIPPLE[mVp-p] *2	120max	120max	120max	120max	120max	120max	120max	120max
	RIPPLE NOISE[mVp-p] *2	150max	150max	150max	150max	150max	150max	150max	150max
	TEMPERATURE REGULATION[mV] -20 to +55℃	150max	180max	150max	180max	150max	180max	150max	180max
	DRIFT[mV] *3	50max	60max	50max	60max	50max	60max	50max	60max
	START-UP TIME[ms]	20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed							
	OUTPUT VOLTAGE SETTING[V]	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
ISOLATION	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	INPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	OUTPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +71℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max							
	VIBRATION	10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT	490.3m/s² (50G), 11ms, once each X, Y and Z axis							
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1							
OTHERS	CASE SIZE/WEIGHT	45×7×35mm (W×H×D) / 40g max							
	COOLING METHOD	Convection							

*1 Rated input 5V, 12V, 24V or 48V DC, Io=100%.
*2 Measured by 20MHz oscilloscope.
*3 The drift is a change at 25℃ of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.
* The output specification is at ±12V and ±15V.
* Series/Parallel operation with other model is not possible.

External view



※Weight: 40g or less.
※Tolerance: ± 0.5
※Case material: Brass

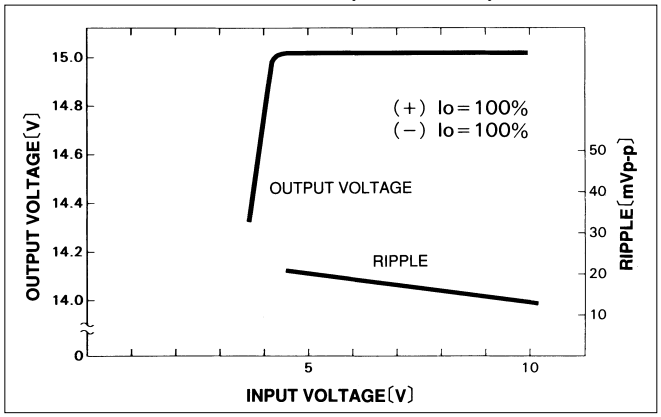


The converter is in contact with the slanted area of the P.C.B. To keep isolation, adequate wiring on the mounted side is required.

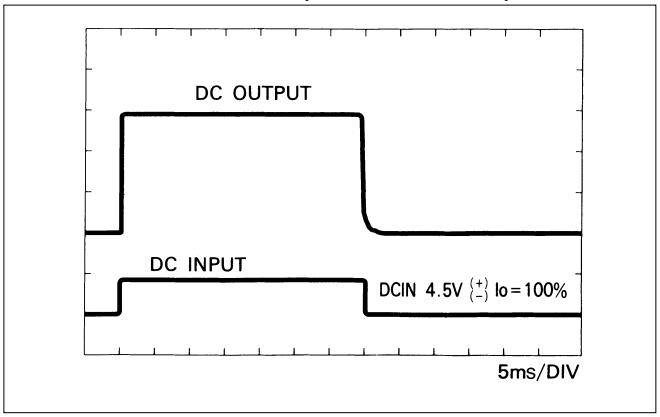
※Dimensions in mm [inch]
※Div.: 0.1inch

Performance data

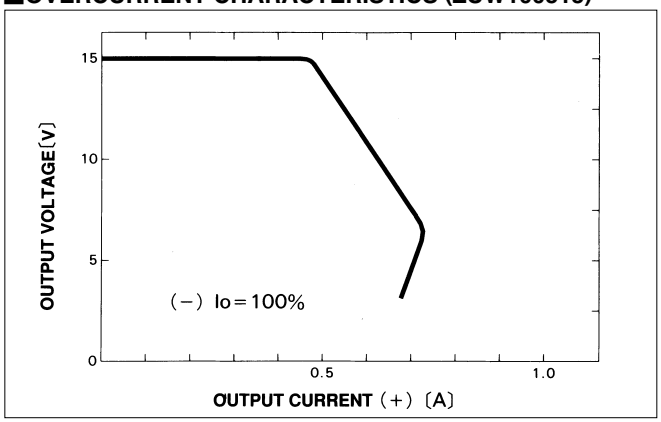
■STATIC CHARACTERISTICS (ZUW100515)



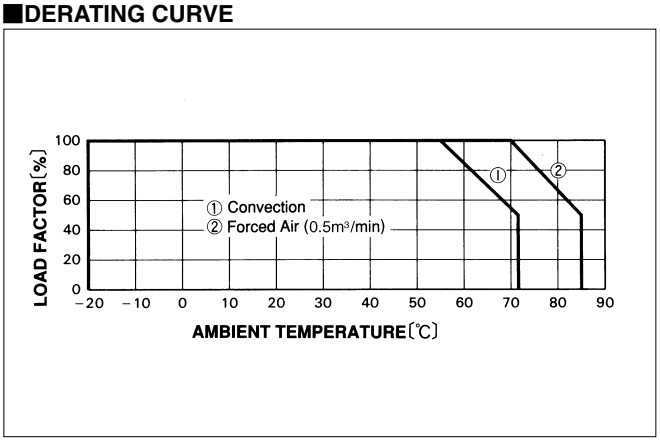
■RISE TIME & FALL TIME (ZUW100515:+15V)



■OVERCURRENT CHARACTERISTICS (ZUW100515)



■DERATING CURVE



COSEL DC-DC Converters PCB Mount type

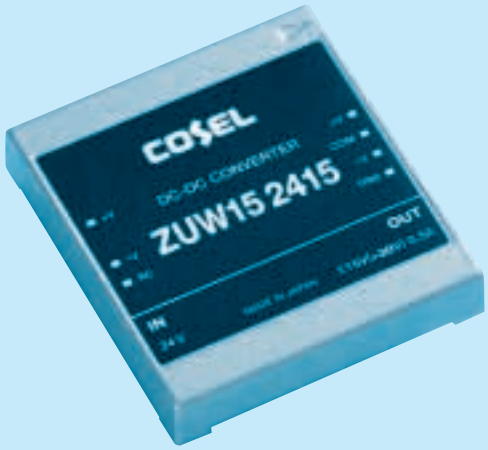
ZUW15

Ordering information

ZU	W	15	12	12	
①	②	③	④	⑤	

①Series name
②Dual output
③Output wattage
④Input voltage
⑤Output voltage

RoHS



MODEL		ZUW150512	ZUW150515	ZUW151212	ZUW151215	ZUW152412	ZUW152415	ZUW154812	ZUW154815
MAX OUTPUT WATTAGE[W]		14.4	15.0	15.6	15.0	15.6	15.0	15.6	15.0
DC OUTPUT	VOLTAGE[V]	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30
	CURRENT[A]	0.6	0.5	0.65	0.5	0.65	0.5	0.65	0.5

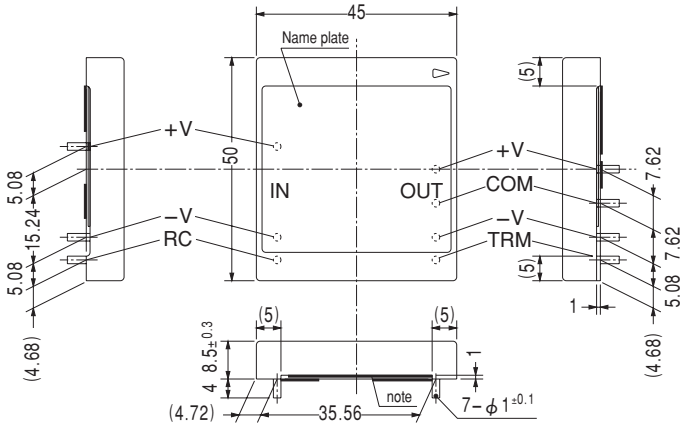
SPECIFICATIONS

Output pins can be connected in series to make a 24V/30V output.

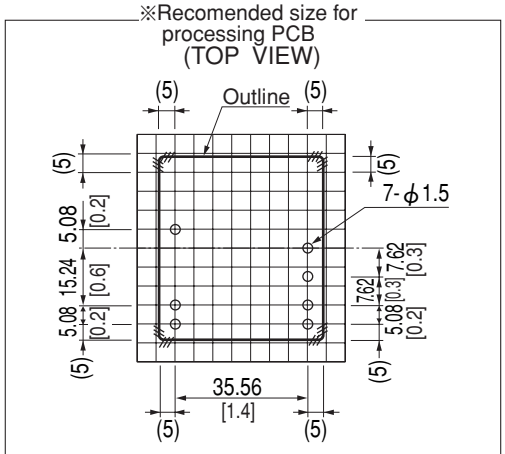
	MODEL	ZUW150512	ZUW150515	ZUW151212	ZUW151215	ZUW152412	ZUW152415	ZUW154812	ZUW154815
INPUT	VOLTAGE[V]	DC4.5 - 9		DC9 - 18		DC18 - 36		DC36 - 75	
	CURRENT[A] *1	3.56typ	3.70typ	1.57typ	1.51typ	0.78typ	0.75typ	0.39typ	0.38typ
	EFFICIENCY[%] *1	81typ	81typ	83typ	83typ	83typ	83typ	83typ	83typ
OUTPUT	VOLTAGE[V]	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)
	CURRENT[A]	0.60	0.50	0.65	0.50	0.65	0.50	0.65	0.50
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max
	LOAD REGULATION[mV]	600max	750max	600max	750max	600max	750max	600max	750max
	RIPPLE[mVp-p] *2	120max	120max	120max	120max	120max	120max	120max	120max
	RIPPLE NOISE[mVp-p] *2	150max	150max	150max	150max	150max	150max	150max	150max
	TEMPERATURE REGULATION[mV] 0 to +55℃	150max	180max	150max	180max	150max	180max	150max	180max
	DRIFT[mV] *3	50max	60max	50max	60max	50max	60max	50max	60max
	START-UP TIME[ms]	100max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Internally fixed (TRM pin open), ±5% adjustable by external VR							
	OUTPUT VOLTAGE SETTING[V]	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating (Total of +V and -V)							
	REMOTE ON/OFF	Between RC and -side of input:short - 1.2V ・・・output ON, 2.4V - 5.5V(or open) ・・・output OFF, Compatible to TTL							
ISOLATION	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	INPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	OUTPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +71℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max							
	VIBRATION	10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT	490.3m/s² (50G), 11ms, once each X, Y and Z axis							
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1							
OTHERS	CASE SIZE/WEIGHT	45×8.5×50mm (W×H×D) / 55g max							
	COOLING METHOD	Convection							

*1 Rated input 5V, 12V, 24V or 48V DC, Io=100%.
*2 Measured by 20MHz oscilloscope.
*3 The drift is a change at 25℃ of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.
* The output specification is at ±12V and ±15V.
* Series/Parallel operation with other model is not possible.

External view



note) Internal parts
※Weight: 55g or less.
※Tolerance: ± 0.5
※Case material: Aluminum

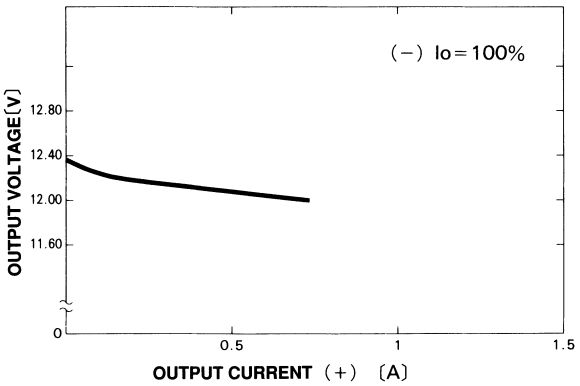


The converter is in contact with the slanted area of the P.C.B. To keep isolation, adequate wiring on the mounted side is required.

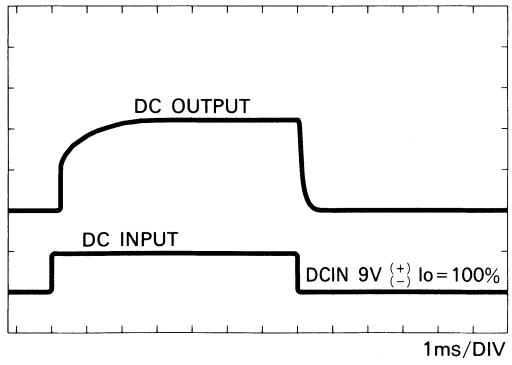
※Dimensions in mm [inch]
※Div.: 0.2inch

Performance data

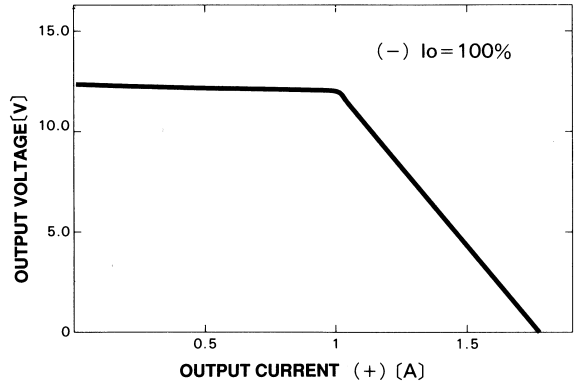
■STATIC CHARACTERISTICS (ZUW151212)



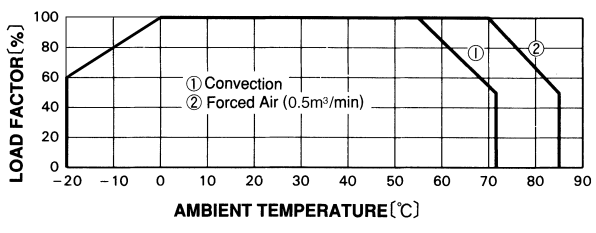
■RISE TIME & FALL TIME (ZUW151212:+12V)



■OVERCURRENT CHARACTERISTICS (ZUW151212)



■DERATING CURVE



COSEL DC-DC Converters PCB Mount type

ZUW25

Ordering information

ZU	W	25	12	12	
①	②	③	④	⑤	

①Series name
②Dual output
③Output wattage
④Input voltage
⑤Output voltage

RoHS

MODEL		ZUW250512	ZUW250515	ZUW251212	ZUW251215	ZUW252412	ZUW252415	ZUW254812	ZUW254815
MAX OUTPUT WATTAGE[W]		20.2	20.1	25.2	25.5	25.2	25.5	25.2	25.5
DC OUTPUT	VOLTAGE[V]	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30
	CURRENT[A]	0.84	0.67	1.05	0.85	1.05	0.85	1.05	0.85

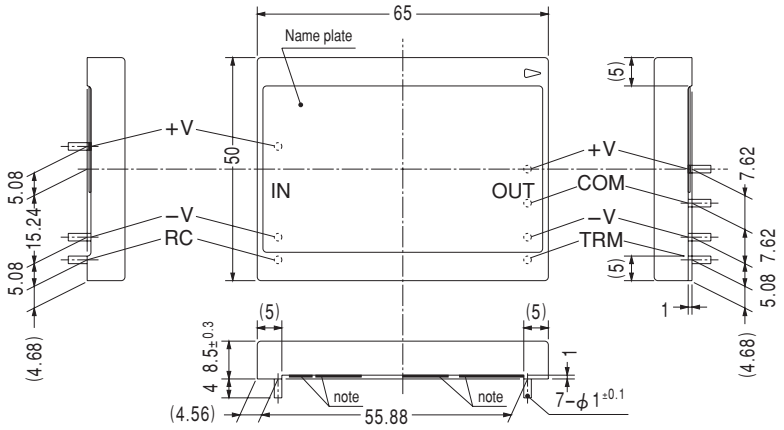
SPECIFICATIONS

Output pins can be connected in series to make a 24V/30V output.

	MODEL	ZUW250512	ZUW250515	ZUW251212	ZUW251215	ZUW252412	ZUW252415	ZUW254812	ZUW254815
INPUT	VOLTAGE[V]	DC4.5 - 9		DC9 - 18		DC18 - 36		DC36 - 75	
	CURRENT[A] *1	4.92typ	4.90typ	2.47typ	2.50typ	1.23typ	1.25typ	0.62typ	0.63typ
	EFFICIENCY[%] *1	82typ	82typ	85typ	85typ	85typ	85typ	85typ	85typ
OUTPUT	VOLTAGE[V]	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)
	CURRENT[A]	0.84	0.67	1.05	0.85	1.05	0.85	1.05	0.85
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max
	LOAD REGULATION[mV]	600max	750max	600max	750max	600max	750max	600max	750max
	RIPPLE[mVp-p] *2	120max	120max	120max	120max	120max	120max	120max	120max
	RIPPLE NOISE[mVp-p] *2	150max	150max	150max	150max	150max	150max	150max	150max
	TEMPERATURE REGULATION[mV] 0 to +55℃	150max	180max	150max	180max	150max	180max	150max	180max
	DRIFT[mV] *3	50max	60max	50max	60max	50max	60max	50max	60max
	START-UP TIME[ms]	100max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Internally fixed (TRM pin open), ±5% adjustable by external VR							
	OUTPUT VOLTAGE SETTING[V]	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating (Total of +V and -V)							
	REMOTE ON/OFF	Between RC and -side of input:short - 1.2V ・・・output ON, 2.4V - 5.5V(or open) ・・・output OFF, Compatible to TTL							
ISOLATION	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	INPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	OUTPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +71℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max							
	VIBRATION	10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT	490.3m/s² (50G), 11ms, once each X, Y and Z axis							
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1							
OTHERS	CASE SIZE/WEIGHT	65×8.5×50mm (W×H×D) / 65g max							
	COOLING METHOD	Convection							

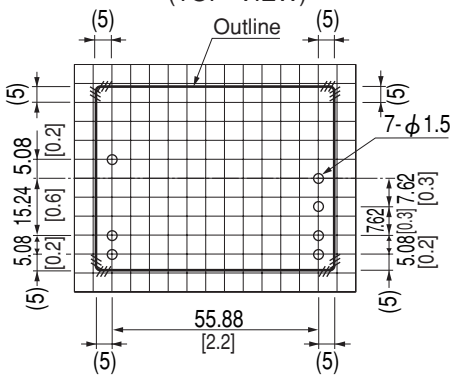
*1 Rated input 5V, 12V, 24V or 48V DC, Io=100%.
*2 Measured by 20MHz oscilloscope.
*3 The drift is a change at 25℃ of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.
* The output specification is at ±12V and ±15V.
* Series/Parallel operation with other model is not possible.

External view



note) Internal parts
※Weight: 65g or less.
※Tolerance: ± 0.5
※Case material: Aluminum

※Recomended size for processing PCB (TOP VIEW)

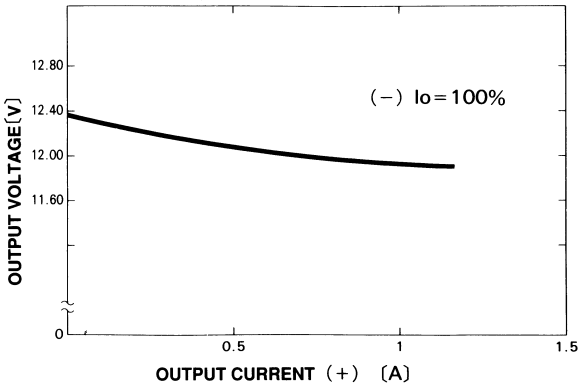


The converter is in contact with the slanted area of the P.C.B. To keep isolation, adequate wiring on the mounted side is required.

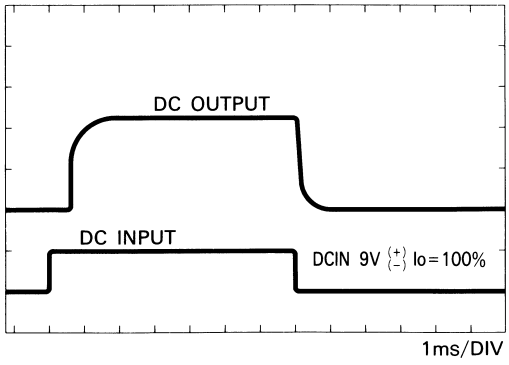
※Dimensions in mm [inch]
※Div.: 0.2inch

Performance data

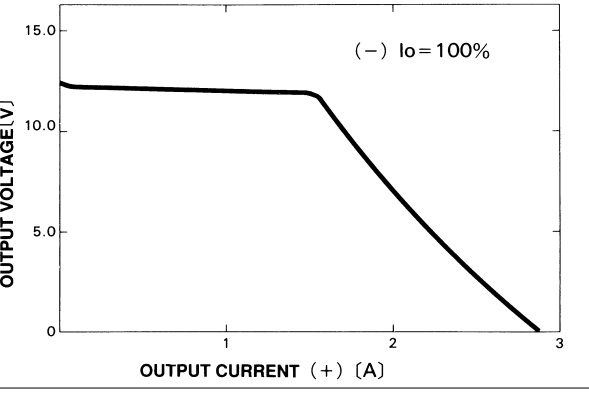
■STATIC CHARACTERISTICS (ZUW251212)



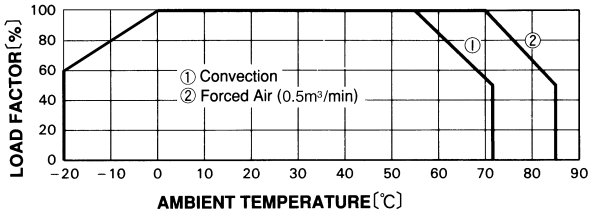
■RISE TIME & FALL TIME (ZUW251212:+12V)



■OVERCURRENT CHARACTERISTICS (ZUW251212)



■DERATING CURVE



Mouser Electronics

Authorized Distributor

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Cosel:

ZUW64815 ZUW30512 ZUW62415-G ZUW1R51212 ZUW101212 ZUW34812-A ZUW250515 ZUW252412 ZUW31212-G ZUW61215 ZUW152415 ZUW1R52412-G ZUW32412-G ZUW104815 ZUW62415 ZUW34812 ZUW254815-A ZUW151212 ZUW60512 ZUW251215 ZUW1R50515 ZUW152412-G ZUW31212 ZUW100515 ZUW61212 ZUW1R54815-A ZUW31215 ZUW1R51215 ZUW60515 ZUW252412-G ZUW64812-A ZUW152412 ZUW32415 ZUW1R54812 ZUW252415 ZUW154812-A ZUW30515 ZUW1R52415 ZUW151215 ZUW250512 ZUW154815 ZUW32412 ZUW104812-A ZUW1R50512-A ZUW64812 ZUW154812 ZUW104812 ZUW1R54815 ZUW62412 ZUW150512 ZUW60512-A ZUW102415 ZUW254812 ZUW1R54812-A ZUW1R52412 ZUW102412 ZUW100512 ZUW34815 ZUW32415-G ZUW150515 ZUW254815 ZUW62412-G ZUW101215 ZUW251212 ZUW254812-A ZUW1R50512

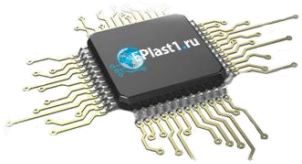
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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