

# Power Supplies & UPS

## DC/DC Dual Output Power Converters

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



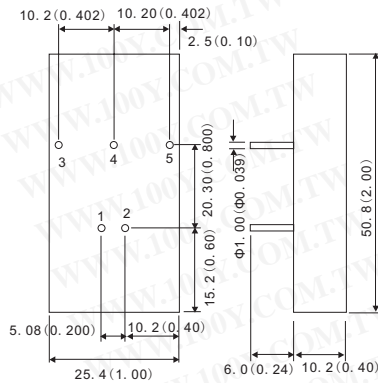
**MKW1000 Series Dual Outputs**

**FEATURES:**

- High Efficiency up to 83%
- 2:1 Input Range
- I/O Isolation 1500VDC
- SMT Technology
- Short Circuit Protection
- Industry Standard Pinout
- EMI Complies With EN55022 Class A
- Six-Side Shielded Case
- MTBF > 700,000 Hours

**SPECIFICATIONS:**

Operating temperature: Ambient: -40°C~+71°C Case: -40°C~+90°C  
 Storage temperature: -40°C~+125°C  
 Output short circuit: Continuous  
 Load regulation: Io=10% to 100% Typ. ±0.1% Max. ±0.5%  
 Ripple & Noise (20MHz): Max: 15mV rms.



Pin	Single output	Dual output
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	Common
5	-Vout	-Vout



Part No.	Product No.	Manufacturer	Description	DCVout	DCVin	Current	DCVout	Current	Watts	Efficiency %
14188	MKW1026	MINMAX	DC to DC Dual Output Power Converters	+5VDC	9~18VDC	+1000mA	-5VDC	-1000mA	10W	78%
21396	MKW1027	MINMAX	DC to DC Dual Output Power Converters	+12VDC	9~18VDC	+416mA	-12VDC	-416mA	10W	81%
21398	MKW1028	MINMAX	DC to DC Dual Output Power Converters	+15VDC	9~18VDC	+333mA	-15VDC	-333mA	10W	80%
21403	MKW1036	MINMAX	DC to DC Dual Output Power Converters	+5VDC	18~36VDC	+1000mA	-5VDC	-1000mA	10W	80%
14189	MKW1037	MINMAX	DC to DC Dual Output Power Converters	+12VDC	18~36VDC	+416mA	-12VDC	-416mA	10W	82%
21404	MKW1038	MINMAX	DC to DC Dual Output Power Converters	+15VDC	18~36VDC	+333mA	-15VDC	-333mA	10W	82%
21410	MKW1046	MINMAX	DC to DC Dual Output Power Converters	+5VDC	36~75VDC	+1000mA	-5VDC	-1000mA	10W	81%
14190	MKW1047	MINMAX	DC to DC Dual Output Power Converters	+12VDC	36~75VDC	+416mA	-12VDC	-416mA	10W	83%
21411	MKW1048	MINMAX	DC to DC Dual Output Power Converters	+15VDC	36~75VDC	+333mA	-15VDC	-333mA	10W	83%



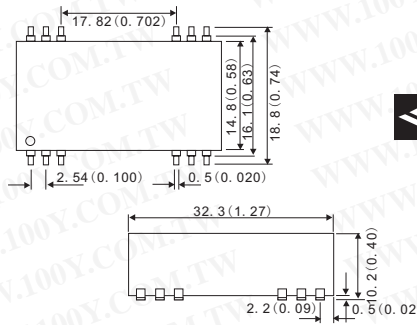
**MSIW1000 Series Dual Outputs**

**FEATURES:**

- High Efficiency up to 83%
- 2:1 Input Range
- I/O Isolation 1500VDC
- SMT Technology
- Short Circuit Protection
- MTBF > 1,000,000 Hours

**SPECIFICATIONS:**

Operating temperature: Ambient: -40°C~+71°C Case: -40°C~+90°C  
 Storage temperature: -40°C~+125°C  
 Output short circuit: Continuous  
 Load regulation: Io=10% to 100% Typ. ±0.3% Max. ±1.0%  
 Ripple & Noise (20MHz): Max: 10mV rms.



Pin	Single output	Dual output
1	-Vin	-Vin
2	-Vin	-Vin
3	NC	NC
10	NC	Common
11	NC	NC
12	NC	-Vout
13	+Vout	+Vout
14	NC	NC
15	-Vout	Common
22	NC	NC
23	+Vin	+Vin
24	+Vin	+Vin



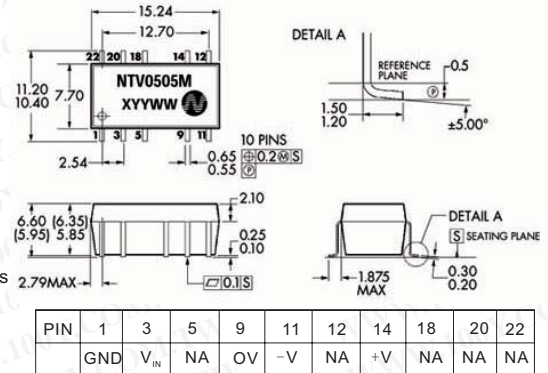
Part No.	Product No.	Manufacturer	Description	DCVout	DCVin	Current	DCVout	Current	Watts	Efficiency %
21416	MSIW1025	MINMAX	DC to DC Dual Output Power Converters	+5VDC	9~18VDC	+300mA	-5VDC	-300mA	3W	78%
21417	MSIW1026	MINMAX	DC to DC Dual Output Power Converters	+12VDC	9~18VDC	+125mA	-12VDC	-125mA	3W	81%
21418	MSIW1027	MINMAX	DC to DC Dual Output Power Converters	+15VDC	9~18VDC	+100mA	-15VDC	-100mA	3W	81%
21424	MSIW1035	MINMAX	DC to DC Dual Output Power Converters	+5VDC	24V(18~36VDC)	+300mA	-5VDC	-300mA	3W	79%
21425	MSIW1036	MINMAX	DC to DC Dual Output Power Converters	+12VDC	24V(18~36VDC)	+125mA	-12VDC	-125mA	3W	82%
21426	MSIW1037	MINMAX	DC to DC Dual Output Power Converters	+15VDC	24V(18~36VDC)	+100mA	-15VDC	-100mA	3W	82%
21431	MSIW1045	MINMAX	DC to DC Dual Output Power Converters	+5VDC	36~75VDC	+300mA	-5VDC	-300mA	3W	79%
21432	MSIW1046	MINMAX	DC to DC Dual Output Power Converters	+12VDC	36~75VDC	+125mA	-12VDC	-125mA	3W	82%
21433	MSIW1047	MINMAX	DC to DC Dual Output Power Converters	+15VDC	36~75VDC	+100mA	-15VDC	-100mA	3W	81%



**NTV Series**

**FEATURES:**

- 3kVDC Isolation (1 Minute)
- Wide Temperature Performance at Full 1 Watt Load, -40°C to 85°C
- Lead Frame Technology
- CECC00802 Reflow (280°C)
- Dual Isolated Output
- Efficiency to 82%
- Power Density 1.5W/cm3
- 5V & 12V Input
- 5V, 9V, 12V and 15V Output
- Footprint Over Pins 1.64cm2
- UL 94V-0 Package Material
- No Heatsink Required
- Internal SMD Construction
- Toroidal Magnetics
- Plastic Encapsulated
- MTTF up to 2.1 Million Hours
- Custom Solutions Available
- Multi Layer Ceramic Capacitors
- Lead Free Compatibility
- Tape and Reel Option



PIN	1	3	5	9	11	12	14	18	20	22
	GND	V <sub>IN</sub>	NA	OV	-V	NA	+V	NA	NA	NA

Part No.	Product No.	Description	DCVout	DCVin	Current	DCVout	Current	Watts	Efficiency %
30403	NTV0512M	DC to DC Dual Output Power Converter	12V	5V	-42mA	5V	42mA	1W	79%
30402	NTV0515M	DC to DC Dual Output Power Converter	15V	5V	-33mA	5V	33mA	1W	80%



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