

# ULTRA-HIGH ISOLATION POWER SOLUTION

模甸科技全新推出 10W + 20W +30W高隔離耐壓系列直流對直流轉換器

- NC10HW& ND-20HW& NJ30HW



NC10HW-10W

24 Pin DIL

ND20HW-20W

1.6" x 1" 包裝

NJ30HW-30W

2" x 1" 包裝



## Awesome Features

### 高隔離耐壓

加強型絕緣隔離電壓高達 5000VAC  
額定強化絕緣工作電壓 250Vrms

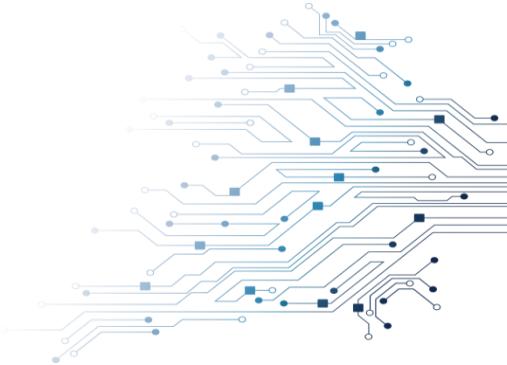
### 4:1 寬範圍輸入電壓

NC10HW: 4.5 ~18 / 9~36 / 18~75Vdc  
ND20HW / NJ30HW: 9~36 / 18~75Vdc

### 操作溫度範圍

可達 -40 °C 至 +100 °C (Derating)





## > 產品特色：

- ✓ 10W 單/雙輸出/ DIP24 包裝
- ✓ 4:1 寬範圍輸入電壓
- ✓ **加強型絕緣且隔離電壓高達 5000VAC**
- ✓ **額定強化絕緣工作電壓 250Vrms**
- ✓ 最高效率達 89%
- ✓ 連續短路保護功能
- ✓ 操作溫度範圍： $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- ✓ UL/cUL/IEC/EN 62368-1 安全認證
- ✓ 具備輸入低電壓、輸出過電流、輸出過電壓保護機制

## > 模拟相似產品規格比較表：

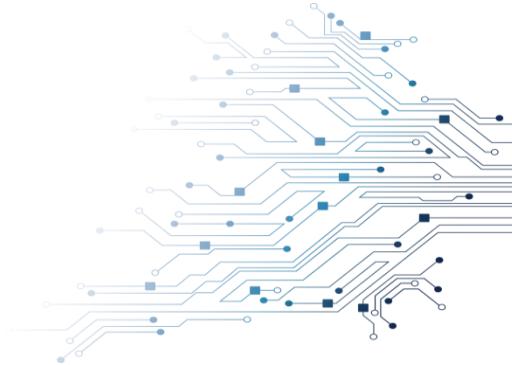
	Motien - NC10HW	DIP24	Motien - VU-10W	Motien - VV-10W
Package		DIP24		
Pinout compatibility		Incompatible		
Output Power	10 W	7.5~10 W	8.91~10 W	
Efficiency	84.5 %, min.	81 %, min.	87 %, min.	
Short Circuit Protection	Yes	Yes	Yes	
Max. Capacitive Load	3300 $\mu\text{F}$	2200 $\mu\text{F}$	1330 $\mu\text{F}$	
Isolation Voltage (input / output)	5000 VAC	1500 VDC	1600 VDC	
Isolation Capacitance	17 pF, typ.	1000 pF, typ.	1500 pF, typ.	
Leakage Current	2 $\mu\text{A}$ , typ.	-	-	
Working Voltage	250 Vrms	-	-	
Clearance/Creepage	8 mm, min.	-	-	
Max. Case Temperature	105 $^{\circ}\text{C}$	100 $^{\circ}\text{C}$	105 $^{\circ}\text{C}$	
Operating Temperature (For Full Load)	-40 ~ 82 $^{\circ}\text{C}$	-40 ~ 78 $^{\circ}\text{C}$	-40 ~ 79 $^{\circ}\text{C}$	
Under Voltage Lockout	Yes	No	No	
Remote ON/OFF	Yes	No	Yes	
Trim	Yes	No	No	
Over Current Protection	Yes	Yes	Yes	
Over Voltage Protection	Yes	No	Yes	
Safety Approval	IEC / EN / UL 62368-1 (Reinforced Insulation)	IEC / EN / UL 62368-1 (Functional Insulation)	IEC / EN / UL 62368-1 (Functional Insulation)	



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## > 產品特色：

- ✓ 20W 單/雙輸出 / 1.6" x 1" 包裝
- ✓ 4:1 寬範圍輸入電壓
- ✓ 隔離電壓高達 5000VAC
- ✓ 額定強化絕緣工作電壓 250Vrms
- ✓ 最高效率達 90%
- ✓ 連續短路保護功能
- ✓ 操作溫度範圍：-40°C ~ +100 °C
- ✓ UL/cUL/IEC/EN 62368-1 安全認證
- ✓ 具備輸入低電壓、輸出過電流、輸出過電壓以及過溫保護機制

## > 模拟相似產品規格比較表：

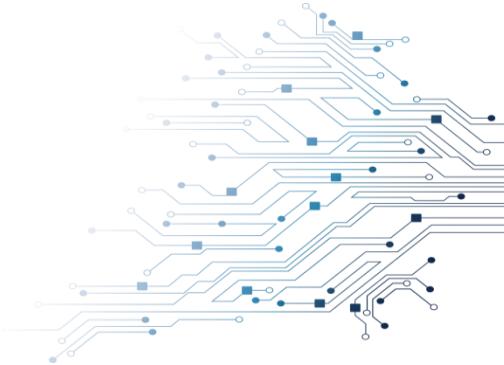
	Motien - ND20HW	Motien - M9-20W
Package	1.6" x 1"	
Pinout compatibility	Incompatible	
Output Power	20 W	20 W
Efficiency	86 %, min.	85.5 %, min.
Short Circuit Protection	Yes	Yes
Max. Capacitive Load	5000 μF	10000 μF
Isolation Voltage ( input / output )	5000 VAC	3000 VDC
Isolation Capacitance	17pF, typ.	2000pF, typ.
Leakage Current	2 μA, typ.	-
Working Voltage	250 Vrms	
Clearance/Creepage	8 mm, min.	-
Max. Case Temperature	105°C	105°C
Operating Temperature ( For Full Load )	-40 ~ 70°C	-40 ~ 66°C
Under Voltage Lockout	Yes	Yes
Remote ON/OFF	Yes	Yes
Trim	Yes	Yes
Over Current Protection	Yes	Yes
Over Voltage Protection	Yes	Yes
Safety Approval	IEC / EN / UL 62368-1 ( Reinforced Insulation )	IEC / EN / UL 62368-1 ( Functional Insulation )



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## > 產品特色：

- ✓ 30W 單/雙輸出/ 2"x1"包裝
- ✓ 4:1 寬範圍輸入電壓
- ✓ 隔離電壓高達 5000VAC
- ✓ 額定強化絕緣工作電壓 250Vrms
- ✓ 最高效率達 89%
- ✓ 連續短路保護功能
- ✓ 操作溫度範圍：-40°C~+100 °C
- ✓ UL/cUL/IEC/EN 62368-1 安全認證
- ✓ 具備輸入低電壓、輸出過電流、輸出過電壓以及過溫保護機制

## > 模拟相似產品規格比較表：

	Motien- NJ30HW	Motien -VTW-30W
2" X 1"		
Package		compatible
Pinout compatibility		
Output Power	30 W	30 W
Efficiency	84 ~ 89 %, typ.	86 ~ 91 %
Short Circuit Protection	Yes	Yes
Max. Capacitive Load	7200 μF	20000 μF
Isolation Voltage ( input / output )	5000 VAC	1600 VDC
Isolation Capacitance	20pF, typ.	1500pF, typ.
Leakage Current	2 μA, typ.	--
Working Voltage	250 Vrms	--
Clearance/Creepage	8 mm, min.	--
Max. Case Temperature	105°C	105°C
Operating Temperature ( For Full Load )	-40 ~ 100°C	-40 ~ 75°C
Under Voltage Lockout	Yes	Yes
Remote ON/OFF	Yes	Yes
Trim	Yes	Yes
Over Current Protection	Yes	Yes
Over Voltage Protection	Yes	Yes
Safety Approval	IEC / EN / UL 62368-1 ( Reinforced Insulation )	IEC / EN / UL 62368-1 ( Functional Insulation )



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