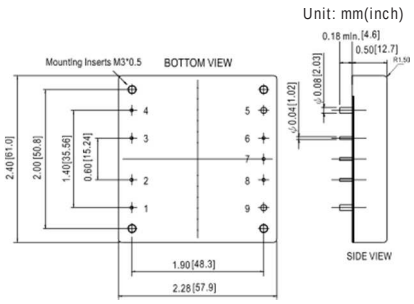
DC/DC Converter

75W ~ 150W Module Type

75W DC-DC Half-Brick Regulated Single Output

- Half-brick size (2.28"x 2.4"x 0.5") with industry standard pin out
- 2:1 wide input range
- 1500VDC I/O isolation
- High efficiency up to 89%
- Built-in remote ON/OFF control
- Built-in remote sense
- Trimming output (±10%)
- Protection: Short circuit / Over current / Over voltage / Over temperature
- Five-sided shielded metal case
- Output 2.5V / 3.3V / 15V available
- Optional heatsink available
- 3 year warranty

Mechanism



Pin Configuration

Pin No.	Output
1	+Vin
2	R.C.
3	Case
4	-Vin
5	-Vout
6	-R.S.
7	Trim
8	+R.S.
9	+Vout

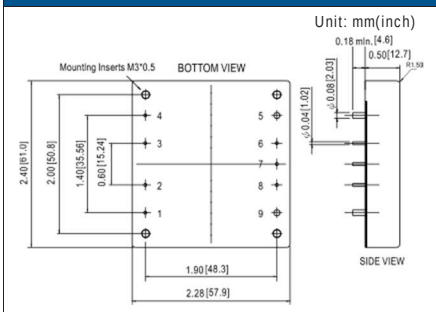
Voltage set point accuracy ...	±1% (max.)
Line regulation	±0.2% (max.)
Load regulation	±0.2% (max.)
Over current protection	110%~150%, auto-recovery
Over voltage protection	115%~140% rated output voltage, clamp by TVS diode
Over temperature protection	100°C±5°C of case temperature
Efficiency	89% (typical)
I/O isolation voltage	1500VDC(min.)
I/O isolation resistance	100MΩ(min.) @500VDC
Working temperature	-40~+100°C of case temp.(refer to output derating curve)
Storage temperature	-55~+105°C
Safety standards	UL60950-1 approved
Case Material	Five-sided shielded metal case
EMC standards.....	Compliance to EN55022 class A with external components(refer to "EMC suggestion circuit"), EN61000-4-2,3,4,5,6,8

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
MHB75-12S05	9~18	5	15	75
MHB75-12S12	9~18	12	6.25	100
MHB75-12S24	9~18	24	3.13	240
MHB75-24S05	18~36	5	15	75
MHB75-24S12	18~36	12	6.25	100
MHB75-24S24	18~36	24	3.13	240
MHB75-48S05	36~75	5	15	75
MHB75-48S12	36~75	12	6.25	100
MHB75-48S24	36~75	24	3.13	240

100W DC-DC Half-Brick Regulated Single Output

- Half-brick size (2.28"x 2.4"x 0.5") with industry standard pin out
- 2:1 wide input range
- 1500VDC I/O isolation
- High efficiency up to 89%
- Built-in remote ON/OFF control
- Built-in remote sense
- Trimming output (±10%)
- Protection: Short circuit / Over current / Over voltage / Over temperature
- Five-sided shielded metal case
- Output 2.5V / 3.3V / 15V available
- Optional heatsink available
- 3 year warranty

Mechanism



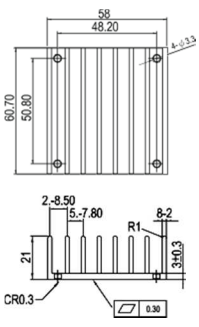
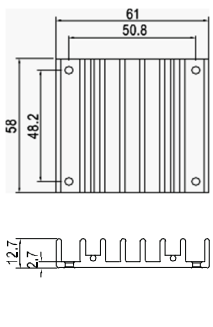
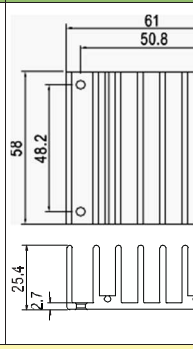
Pin Configuration

Pin No.	Output
1	+Vin
2	R.C.
3	Case
4	-Vin
5	-Vout
6	-R.S.
7	Trim
8	+R.S.
9	+Vout

Voltage set point accuracy ...	±1% (max.)
Line regulation	±0.2% (max.)
Load regulation	±0.2% (max.)
Over current protection	110%~140%, auto-recovery
Over voltage protection	115%~140% rated output voltage, clamp by TVS diode
Over temperature protection	100°C±5°C of case temperature
Efficiency	89% (typical)
I/O isolation voltage	1500VDC(min.)
I/O isolation resistance	100MΩ(min.) @500VDC
Working temperature	-40~+100°C of case temp.(refer to output derating curve)
Storage temperature	-55~+105°C
Safety standards	UL60950-1 approved
Case Material	Five-sided shield metal case
EMC standards.....	Compliance to EN55022 class A with external components(refer to "EMC suggestion circuit"), EN61000-4-2,3,4,5,6,8

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
MHB100-24S05	18~36	5	20	100
MHB100-24S12	18~36	12	8.3	150
MHB100-24S24	18~36	24	4.17	240
MHB100-48S05	36~75	5	20	100
MHB100-48S12	36~75	12	8.3	150
MHB100-48S24	36~75	24	4.17	240

Heat Sinks for the MHB Series

Order No.	M-C308 (Vertical Fins)	M-C091 (Horizontal Fins)	M-C092 (Horizontal Fins)
Mechanical			

Note: Power module and heatsink should be ordered separately; All heatsinks can be used with the MHB75/100/150 series.

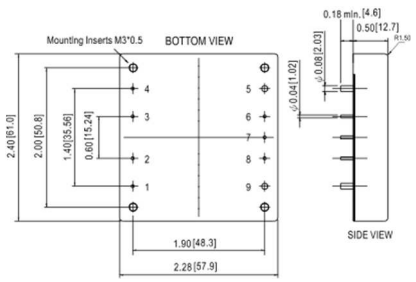
DC/DC Converter

75W ~ 150W Module Type

150W DC-DC Half-Brick Regulated Single Output

- Half-brick size (2.28"x 2.4"x 0.5") with industry standard pin out
- 2:1 wide input range
- 1500VDC I/O isolation
- High efficiency up to 89%
- Built-in remote ON/OFF control
- Built-in remote sense
- Trimming output (±10%)
- Protection: Short circuit / Over current / Over voltage / Over temperature
- Five-sided shield metal case
- Output 2.5V / 3.3V /15V available
- Optional heat sink available
- 3 year warranty

Mechanism



Pin Configuration

Pin No.	Output
1	+Vin
2	R.C.
3	Case
4	-Vin
5	-Vout
6	-R.S.
7	Trim
8	+R.S.
9	+Vout

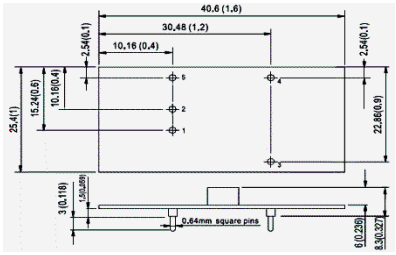
Voltage set point accuracy ... ±1% (max.)
Line regulation ..... ±0.2% (max.)
Load regulation ..... ±0.2% (max.)
Over current protection ..... 110%~150%, auto-recovery
Over voltage protection ..... 115%~140% rated output voltage, clamp by TVS diode
Over temperature protection ..... 100°C±5°C of case temperature
Efficiency ..... 89% (typical)
I/O isolation voltage ..... 1500VDC(min.)
I/O isolation resistance ..... 100MΩ(min.) @500VDC
Working temperature ..... -40~+100°C of case temp.(refer to output derating curve)
Storage temperature ..... -55~+105°C
Safety standards ..... UL60950-1 approved
Case Material ..... Five-sided shield metal case
EMC standards ..... Compliance to EN55022 class A with external components(refer to "EMC suggestion circuit"), EN61000-4-2,3,4,5,6,8

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
MHB150-48S05	36~75	5	30	100
MHB150-48S12	36~75	12	12.5	150
MHB150-48S24	36~75	24	6.25	240

5W DC-DC PCB Regulated Single Output

- 4:1 wide input range
- 1000VDC I/O isolation
- Built-in EMI filter
- Protection: Short circuit / Overload / Over voltage
- Built-in remote ON/OFF control
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 year warranty

Mechanism



Pin Configuration

Pin No.	Output
1	+Input
2	-Input(GND)
3	+Vout
4	-Vout
5	Control

Voltage set point accuracy ... ±2.0% (max.)
Line regulation ..... ±1.0% (max.)
Load regulation ..... ±1~±2% (max.)@10~100% load
Efficiency ..... 85% (typical)
Short circuit protection ..... Continuous, auto-recovery
Overload protection ..... Over 105% power limiting, auto-recovery
I/O isolation voltage 1000VDC
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Working temperature ..... -25~+70°C (refer to output derating curve)
Storage temperature ..... -40~+85°C
Temp. Coefficient ..... ±0.03% / °C
Safety standards ..... IEC60950-1 CB approved by TUV
EMC standards ..... EN55022 class B, EN61000-4-2,3,4,5,6,8
Packing ..... 0.007kg; 700pcs / 5.9kg / 0.97CUFT

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD05-12S3	9.2~36	3.3	1200	75
NSD05-12S5	9.2~36	5	1000	75
NSD05-12S12	9.2~36	12	420	75
NSD05-12S15	9.2~36	15	330	75
NSD05-48S3	18~72	3.3	1200	75
NSD05-48S5	18~72	5	1000	75
NSD05-48S12	18~72	12	420	75
NSD05-48S15	18~72	15	330	75

We can provide specifications, drawings, test reports and more information, please visit our website — www.procontechnology.com.au

Fast delivery—
Meanwell stock 95% of standard models at the 2400m² Taipei warehouse. We can arrange prompt delivery within 5-7 days if it's not in stock in Australia.