DC/DC Converter

1W Module Type

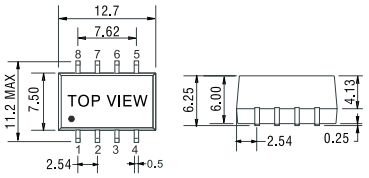
1W DC-DC Unregulated Single Output

0.50"x 0.30"x 0.24"

- 1000VDC I/O isolation
- Internal SMD technology
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- SMD package style
- 100% full load burn-in test
- Low cost, high reliability
- 1 year warranty

Mechanism

Unit: mm(inch)



Pin Configuration

Pin No.	Output
1	-Vin
2	+Vin
3	NC
4	-Vout
5	+Vout
6	NC
7	NC
8	NC

Voltage set point accuracy ..... ±8% (max.)
Line regulation ..... ±1.2% (max.) for 1% input variation
Load regulation ..... ±8% (max.)@20~100% load
Input reflected ripple 100mVp-p
Efficiency ..... 75% (typical)
Short circuit protection .....Momentary
Switching frequency .....100kHz (typical)
I/O isolation voltage ..... 1000VDC (min.)
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Working temperature ..... -40°C to +85°C
Storage temperature .....-40°C to +105°C
Temp. Coefficient ..... ±0.03% / °C (max.)
Case material ..... non-conductive plastic
Safety standards ..... UL60950-1 approved

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SBT01L-05	5±10%	5	200	100
SBT01L-09	5±10%	9	111	100
SBT01L-12	5±10%	12	84	100
SBT01L-15	5±10%	15	67	100
SBT01M-05	12±10%	5	200	100
SBT01M-09	12±10%	9	111	100
SBT01M-12	12±10%	12	84	100
SBT01M-15	12±10%	15	67	100

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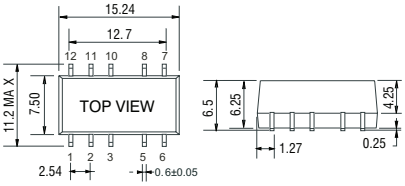
1W DC-DC Unregulated Single and Dual Output

0.60"x 0.30"x 0.24"

- 3000VDC I/O isolation
- Internal SMD technology
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- SMD package style
- 100% full load burn-in test
- Low cost, high reliability
- 1 year warranty

Mechanism

Unit: mm(inch)



Pin Configuration

Pin No.	Output
1	-Vin
2	+Vin
3	NC
5	-Vout
6	NC
7	NC
8	+Vout
10	NC
11	NC
12	NC

Voltage set point accuracy .....±8% (max.)
Line regulation ..... ±1.2% (max.) for 1% input variation
Load regulation ..... ±8% (max.)@20~100% load
Efficiency ..... 79% (typical)
Short circuit protection .....Momentary
Switching frequency ..... 100kHz (typical)
I/O isolation voltage ..... 3000VDC (min.)
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Working temperature ..... -40°C to +85°C
Storage temperature .....-40°C to +105°C
Temp. Coefficient ..... ±0.03% / °C (max.)
Case material ..... non-conductive plastic
Safety standards ..... UL60950-1, CSA C22.2 approved

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SFT01L-05	5±10%	5	200	100
SFT01L-09	5±10%	9	111	100
SFT01L-12	5±10%	12	84	100
SFT01L-15	5±10%	15	67	100
SFT01M-05	12±10%	5	200	100
SFT01M-09	12±10%	9	111	100
SFT01M-12	12±10%	12	84	100
SFT01M-15	12±10%	15	67	100

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DET01L-05	5±10%	±5	±100	100
DET01L-09	5±10%	±9	±56	100
DET01L-12	5±10%	±12	±42	100
DET01L-15	5±10%	±15	±33	100
DET01M-05	12±10%	±5	±100	100
DET01M-09	12±10%	±9	±56	100
DET01M-12	12±10%	±12	±42	100
DET01M-15	12±10%	±15	±33	100

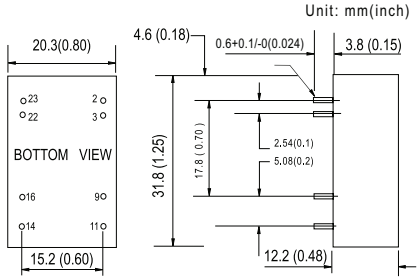
DC/DC Converter

3~5W Module Type

3W DC-DC Regulated Single and Dual Output

- 2:1 wide input range
- 4:1 wide input range (option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Single	Dual
2&3	-Vin	-Vin
9	NC	COM
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	COM
22&23	+Vin	+Vin

Voltage set point accuracy ..... ±2% (max.)
Line regulation ..... ±0.5% (max.)
Load regulation ..... ±0.5% (max.)@10~100% load
Efficiency .....82% (typical)
Short circuit protection .....Continuous, auto-recovery
Overload protection ..... 160%~250%, auto-recovery
I/O isolation voltage .....1000VDC (min.)
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Isolation capacitance ..... 80pF (max.)
Working temperature ..... -25°C to +60°C (no derating), +71°C@80% load
Storage temperature ..... -25°C to +105°C
Temp. Coefficient ..... ±0.03% / °C (max.)
Case material ..... Five-sided shield metal case
EMI ..... Compliance to EN55022 Class B, FCC part15 Class B

❖ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW03A-05	9~18	5	600	50
SCW03A-12	9~18	12	250	60
SCW03A-15	9~18	15	200	60
SCW03B-05	18~36	5	600	50
SCW03B-12	18~36	12	250	60
SCW03B-15	18~36	15	200	60
SCW03C-05	36~72	5	600	50
SCW03C-12	36~72	12	250	60
SCW03C-15	36~72	15	200	60

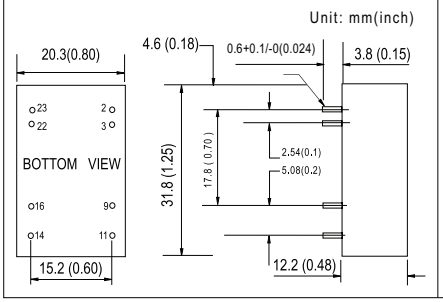
❖ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW03A-05	9~18	±5	±300	50
DCW03A-12	9~18	±12	±125	60
DCW03A-15	9~18	±15	±100	60
DCW03B-05	18~36	±5	±300	50
DCW03B-12	18~36	±12	±125	60
DCW03B-15	18~36	±15	±100	60
DCW03C-05	36~72	±5	±300	50
DCW03C-12	36~72	±12	±125	60
DCW03C-15	36~72	±15	±100	60

5~6W DC-DC Regulated Single and Dual Output

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Single	Dual
2&3	-Vin	-Vin
9	NC	COM
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	COM
22&23	+Vin	+Vin

Voltage set point accuracy ..... ±2% (max.)
Line regulation ..... ±0.5% (max.)
Load regulation ..... ±0.5% (max.)@20~100% load
Efficiency .....85% (typical)
Short circuit protection .....continuous, auto-recovery
Overload protection ..... 150%~250%, auto-recovery
I/O isolation voltage ..... 1000VDC (min.)
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Isolation capacitance ..... 80pF (max.)
Working temperature .....-25°C to +60°C (no derating), +71°C@80% load
Storage temperature ..... -25°C to +105°C
Temp. Coefficient .....±0.03% / °C (max.)
Case material ..... Five-sided shield metal case
EMI ..... Compliance to EN55022 Class B, FCC part15 Class B

❖ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW05A-05	9~18	5	1000	50
SCW05A-09	9~18	9	556	60
SCW05A-12	9~18	12	470	60
SCW05A-15	9~18	15	400	60
SCW05B-05	18~36	5	1000	50
SCW05B-09	18~36	9	556	60
SCW05B-12	18~36	12	470	60
SCW05B-15	18~36	15	400	60
SCW05C-05	36~72	5	1000	50
SCW05C-09	36~72	9	556	60
SCW05C-12	36~72	12	470	60
SCW05C-15	36~72	15	400	60

❖ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW05A-05	9~18	±5	±500	50
DCW05A-12	9~18	±12	±230	60
DCW05A-15	9~18	±15	±190	60
DCW05B-05	18~36	±5	±500	50
DCW05B-12	18~36	±12	±230	60
DCW05B-15	18~36	±15	±190	60
DCW05C-05	36~72	±5	±500	50
DCW05C-12	36~72	±12	±230	60
DCW05C-15	36~72	±15	±190	60

DC/DC Converter

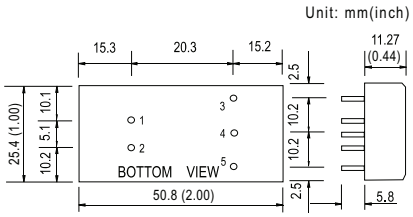
5~8W Module Type

5W DC-DC Regulated Single and Dual Output

2"x 1"x 0.44"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	COM
5	-Vout	-Vout

Voltage set point accuracy ...±2% (max.)
Line regulation .....±0.2% (max.)
Load regulation .....±0.5% (max.)@10~100% load
Efficiency ..... 85% (typical)
Short circuit protection ..... continuous, auto-recovery
Overload protection ..... 160%~250%, auto-recovery
I/O isolation voltage ..... 1000VDC (min.)
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Working temperature ..... -25°C to +60°C (no derating), +71°C@80% load
Storage temperature .....-25°C to +105°C
Temp. Coefficient ..... ±0.03% / °C (max.)
Case material ..... Six-sided shield metal case
EMI ..... Compliance to EN55022 Class B, FCC part15 Class B

❖ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SLW05A-05	9~18	5	1000	50
SLW05A-09	9~18	9	556	60
SLW05A-12	9~18	12	417	60
SLW05A-15	9~18	15	333	60
SLW05B-05	18~36	5	1000	50
SLW05B-09	18~36	9	556	60
SLW05B-12	18~36	12	417	60
SLW05B-15	18~36	15	333	60
SLW05C-05	36~72	5	1000	50
SLW05C-09	36~72	9	556	60
SLW05C-12	36~72	12	417	60
SLW05C-15	36~72	15	333	60

❖ Dual Output

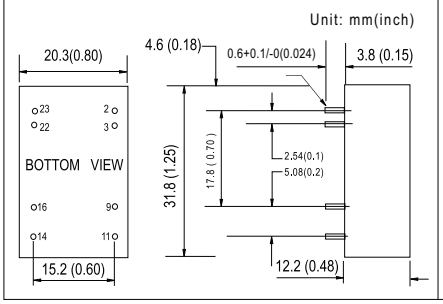
Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DLW05A-05	9~18	±5	±500	50
DLW05A-12	9~18	±12	±208	60
DLW05A-15	9~18	±15	±167	60
DLW05B-05	18~36	±5	±500	50
DLW05B-12	18~36	±12	±208	60
DLW05B-15	18~36	±15	±167	60
DLW05C-05	36~72	±5	±500	50
DLW05C-12	36~72	±12	±208	60
DLW05C-15	36~72	±15	±167	60

8W DC-DC Regulated Single and Dual Output

1.25"x 0.8"x 0.48"

- 2:1 wide input range
- 1000VDC I/O isolation
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Single	Dual
2&3	-Vin	-Vin
9	NC	COM
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	COM
22&23	+Vin	+Vin

Voltage set point accuracy ..... ±2% (max.)
Line regulation ..... ±0.5% (max.)
Load regulation ..... ±0.5% (max.)@20~100% load
Efficiency .....81% (typical)
Short circuit protection .....continuous, auto-recovery
Overload protection ..... 110%~250%, auto-recovery
I/O isolation voltage ..... 1000VDC (min.)
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Isolation capacitance ..... 250pF (max.)
Working temperature .....-25°C to +60°C (no derating), +71°C@80% load
Storage temperature .....-25°C to +105°C
Temp. Coefficient .....±0.03% / °C (max.)
Case material ..... Five-sided shield metal case
EMI ..... Compliance to EN55022 Class B, FCC part15 Class B

❖ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW08A-05	9~18	5	1600	50
SCW08A-12	9~18	12	670	60
SCW08A-15	9~18	15	533	60
SCW08B-05	18~36	5	1600	50
SCW08B-12	18~36	12	670	60
SCW08B-15	18~36	15	533	60
SCW08C-05	36~72	5	1600	50
SCW08C-12	36~72	12	670	60
SCW08C-15	36~72	15	533	60

❖ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW08A-05	9~18	±5	±800	50
DCW08A-12	9~18	±12	±335	60
DCW08A-15	9~18	±15	±267	60
DCW08B-05	18~36	±5	±800	50
DCW08B-12	18~36	±12	±335	60
DCW08B-15	18~36	±15	±267	60
DCW08C-05	36~72	±5	±800	50
DCW08C-12	36~72	±12	±335	60
DCW08C-15	36~72	±15	±267	60

DC/DC Converter

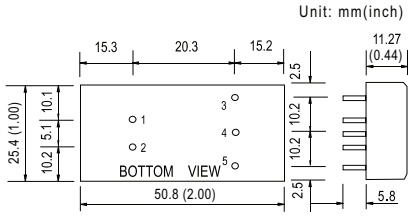
10~12W Module Type

10W DC-DC Regulated Single and Dual Output

2"x 1"x 0.44"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	COM
5	-Vout	-Vout

Voltage set point accuracy ... ±2% (max.)
Line regulation ..... ±0.3% (max.)
Load regulation ..... ±0.5% (max.)@10~100% load
Efficiency ..... 85% (typical)
Short circuit protection ..... continuous, auto-recovery
Overload protection ..... 160%~250%, auto-recovery
I/O isolation voltage ..... 1000VDC (min.)
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Working temperature ..... -25°C to +60°C (no derating), +71°C@80% load
Storage temperature ..... -25°C to +105°C
Temp. Coefficient ..... ±0.03% / °C (max.)
Case material ..... Six-sided shield metal case
EMI ..... Compliance to EN55022 Class B, FCC part15 Class B

❖ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKE10A-05	9~18	5	2000	50
SKE10A-12	9~18	12	840	60
SKE10A-15	9~18	15	666	60
SKE10A-24	9~18	24	420	80
SKE10B-05	18~36	5	2000	50
SKE10B-12	18~36	12	840	60
SKE10B-15	18~36	15	666	60
SKE10B-24	18~36	24	420	80
SKE10C-05	36~72	5	2000	50
SKE10C-12	36~72	12	840	60
SKE10C-15	36~72	15	666	60
SKE10C-24	36~72	24	420	80

❖ Dual Output

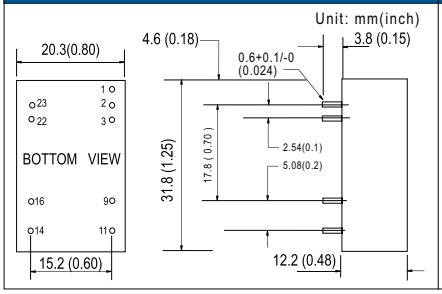
Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKE10A-05	9~18	±5	±1000	50
DKE10A-12	9~18	±12	±420	60
DKE10A-15	9~18	±15	±333	60
DKE10A-24	9~18	±24	±210	80
DKE10B-05	18~36	±5	±1000	50
DKE10B-12	18~36	±12	±420	60
DKE10B-15	18~36	±15	±333	60
DKE10B-24	18~36	±24	±210	80
DKE10C-05	36~72	±5	±1000	50
DKE10C-12	36~72	±12	±420	60
DKE10C-15	36~72	±15	±333	60
DKE10C-24	36~72	±24	±210	80

12W DC-DC Regulated Single and Dual Output

1.25"x 0.8"x 0.48"

- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- Modified models available: output 2.5V / 3.3V
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Single	Dual
1	R.C	R.C
2&3	-Vin	-Vin
9	NC	COM
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	COM
22&23	+Vin	+Vin

Voltage set point accuracy ... ±2% (max.)
Line regulation ..... ±0.5% (max.)
Load regulation ..... ±0.5% (max.)@20~100% load
Efficiency ..... 83% (typical)
Short circuit protection ..... continuous, auto-recovery
Overload protection ..... 110%~180%, auto-recovery
I/O isolation voltage ..... 1500VDC (min.)
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Working temperature ..... -25°C to +60°C (no derating), +71°C@60% load
Storage temperature ..... -25°C to +105°C
Temp. Coefficient ..... ±0.03% / °C (max.)
Case material ..... Five-sided shield metal case
EMI ..... Compliance to EN55022 Class A, FCC part15 Class A

❖ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW12A-05	9~18	5	2400	50
SCW12A-12	9~18	12	1000	60
SCW12A-15	9~18	15	800	60
SCW12B-05	18~36	5	2400	50
SCW12B-12	18~36	12	1000	60
SCW12B-15	18~36	15	800	60
SCW12C-05	36~72	5	2400	50
SCW12C-12	36~72	12	1000	60
SCW12C-15	36~72	15	800	60

❖ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW12A-05	9~18	±5	±1200	50
DCW12A-12	9~18	±12	±500	60
DCW12A-15	9~18	±15	±400	60
DCW12B-05	18~36	±5	±1200	50
DCW12B-12	18~36	±12	±500	60
DCW12B-15	18~36	±15	±400	60
DCW12C-05	36~72	±5	±1200	50
DCW12C-12	36~72	±12	±500	60
DCW12C-15	36~72	±15	±400	60

DC/DC Converter

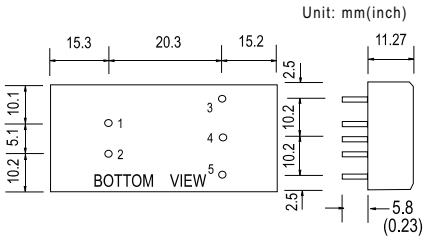
15W Module Type

15W DC-DC Regulated Single and Dual Output

2"x 1"x 0.44"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	COM
5	-Vout	-Vout

Voltage set point accuracy ... ±2% (max.)
Line regulation ..... ±0.2% (max.)
Load regulation ..... ±0.5% (max.)@10~100% load
Efficiency ..... 82% (typical)
Short circuit protection .....continuous, auto-recovery
Overload protection ..... 110%~250%, auto-recovery
I/O isolation voltage .....1000VDC (min.)
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Working temperature .....-25°C to +60°C (no derating), +71°C@80% load
Storage temperature ..... -25°C to +105°C
Temp. Coefficient ..... ±0.03% / °C (max.)
Case material ..... Six-sided shield metal case
EMI ..... Compliance to EN55022 Class B, FCC part15 Class B

❖ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKA15A-033	9~18	3.3	3000	50
SKA15A-05	9~18	5	3000	50
SKA15A-12	9~18	12	1250	60
SKA15A-15	9~18	15	1000	60
SKA15B-033	18~36	3.3	3000	50
SKA15B-05	18~36	5	3000	50
SKA15B-12	18~36	12	1250	60
SKA15B-15	18~36	15	1000	60
SKA15C-033	36~72	3.3	3000	50
SKA15C-05	36~72	5	3000	50
SKA15C-12	36~72	12	1250	60
SKA15C-15	36~72	15	1000	60

❖ Dual Output

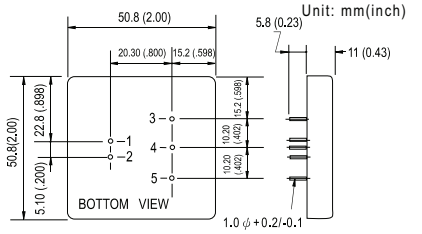
Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKA15A-05	9~18	±5	±1500	50
DKA15A-12	9~18	±12	±625	60
DKA15A-15	9~18	±15	±500	60
DKA15B-05	18~36	±5	±1500	50
DKA15B-12	18~36	±12	±625	60
DKA15B-15	18~36	±15	±500	60
DKA15C-05	36~72	±5	±1500	50
DKA15C-12	36~72	±12	±625	60
DKA15C-15	36~72	±15	±500	60

15W DC-DC Regulated Single and Dual Output

2"x 2"x 0.43"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	COM
5	-Vout	-Vout

Voltage set point accuracy ...±2% (max.)
Line regulation ..... ±0.3% (max.)
Load regulation ..... ±0.5% (max.)@10~100% load
Efficiency ..... 85% (typical)
Short circuit protection ..... continuous, auto-recovery
Overload protection .....160%~250%, auto-recovery
I/O isolation voltage ..... 1000VDC (min.)
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Working temperature .....-25°C to +60°C (no derating), +71°C@80% load
Storage temperature ..... -25°C to +105°C
Temp. Coefficient ..... ±0.03% / °C (max.)
Case material ..... Six-sided shield metal case
EMI .....Compliance to EN55022 Class B, FCC part15 Class B

❖ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKE15A-05	9~18	5	3000	50
SKE15A-12	9~18	12	1250	60
SKE15A-15	9~18	15	1000	60
SKE15A-24	9~18	24	625	80
SKE15B-05	18~36	5	3000	50
SKE15B-12	18~36	12	1250	60
SKE15B-15	18~36	15	1000	60
SKE15B-24	18~36	24	625	80
SKE15C-05	36~72	5	3000	50
SKE15C-12	36~72	12	1250	60
SKE15C-15	36~72	15	1000	60
SKE15C-24	36~72	24	625	80

❖ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKE15A-05	9~18	±5	±1500	50
DKE15A-12	9~18	±12	±625	60
DKE15A-15	9~18	±15	±500	60
DKE15A-24	9~18	±24	±313	80
DKE15B-05	18~36	±5	±1500	50
DKE15B-12	18~36	±12	±625	60
DKE15B-15	18~36	±15	±500	60
DKE15B-24	18~36	±24	±313	80
DKE15C-05	36~72	±5	±1500	50
DKE15C-12	36~72	±12	±625	60
DKE15C-15	36~72	±15	±500	60
DKE15C-24	36~72	±24	±313	80

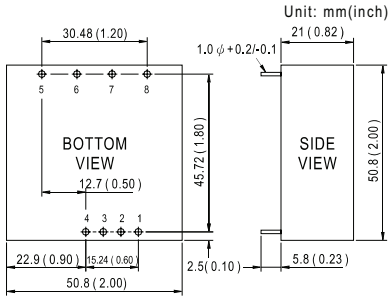
DC/DC Converter

25~30W Module Type

25~30W DC-DC Regulated Dual and Triple Output

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Trimming output (±10%) for dual output
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Dual	Triple
1	R.C	R.C
2	No Pin	No Pin
3	-Vin	-Vin
4	+Vin	+Vin
5	+Vout	+Vout
6	COM	+5V
7	-Vout	COM
8	TRIM	-Vout

Voltage set point accuracy .... ±2% (max.)
Line regulation ..... ±0.5% (max.) for dual output;
±1% (max.) for triple output
Load regulation ..... ±0.5% (10%~full load)(Dual)
±5% (20%~full load)(Triple)
Efficiency ..... 83% (typical)
Short circuit protection ..... continuous, auto-recovery
Overload protection ..... 110%~250%, auto-recovery
I/O isolation voltage ..... 1000VDC (min.)
I/O isolation resistance ..... 100MΩ (min.)@ 500VDC
Working temperature ..... -25°C to +71°C (no derating), +85°C@60% load
Storage temperature ..... -40°C to +105°C
Temp. Coefficient ..... ±0.03% / °C (max.)
Case material ..... Six-sided shield metal case
EMI ..... Compliance to EN55022 Class B,
FCC part15 Class B

❖ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKA30A-05	9~18	±5	±2500	100
DKA30A-12	9~18	±12	±1250	100
DKA30A-15	9~18	15	±1000	100
DKA30B-05	18~36	±5	±2500	100
DKA30B-12	18~36	±12	±1250	100
DKA30B-15	18~36	±15	±1000	100
DKA30C-05	36~72	±5	±2500	100
DKA30C-12	36~72	±12	±1250	100
DKA30C-15	36~72	±15	±1000	100

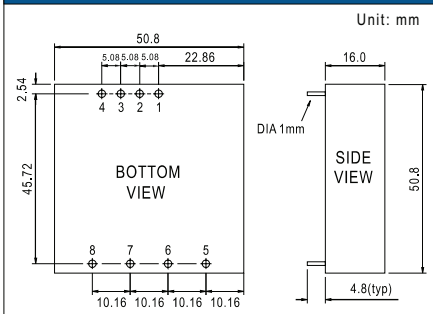
❖ Triple Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
TKA30A-B	9~18	+5 / ±12	3500 / ±310	100
TKA30A-C	9~18	+5 / ±15	3500 / ±250	100
TKA30B-B	18~36	+5 / ±12	3500 / ±310	100
TKA30B-C	18~36	+5 / ±15	3500 / ±250	100
TKA30C-B	36~72	+5 / ±12	3500 / ±310	100
TKA30C-C	36~72	+5 / ±15	3500 / ±250	100

30W DC-DC Regulated Single Output

- 2:1 wide input range
- 1000VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Trimming output (±10%)
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Compact size, high efficiency
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output
1	+Vin
2	-Vin
3	No Pin
4	Control ON/OFF
5	No Pin
6	+Vout
7	-Vout
8	TRIM

Voltage set point accuracy ...±2% (max.)(±3% for 3.3VDC models)
Line regulation ..... ±1% (max.)
Load regulation ..... ±1% (max.) @10%~full load
Overload protection ..... Over 105% power limiting, auto-recovery
Over voltage protection ..... 115%~150% rated output voltage
Efficiency (typical) ..... 80% for 12V input
83% for 24V input
85% for 48V input
I/O isolation voltage .....1000VDC(min.)
I/O isolation resistance ..... 100MΩ(min.) @500VDC
Working temperature ..... -25°C to +85°C(refer to output derating curve)
Storage temperature ..... -25°C to 85°C
Safety standards ..... Design refer to UL1950, TUV EN60950
Case Material ..... Six-sided shield metal case
EMI ..... Compliance to EN55022 class B
Packing ..... 0.1kg ; 150pcs / 15.8kg / 0.97CUFT

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SDM30-12S3	9~18	3.3	5.0	75
SDM30-12S5	9~18	5	5.0	75
SDM30-12S12	9~18	12	2.1	100
SDM30-12S15	9~18	15	1.7	100
SDM30-24S3	18~36	3.3	5.0	75
SDM30-24S5	18~36	5	5.0	75
SDM30-24S12	18~36	12	2.5	100
SDM30-24S15	18~36	15	2.0	100
SDM30-48S3	36~72	3.3	5.0	75
SDM30-48S5	36~72	5	5.0	75
SDM30-48S12	36~72	12	2.5	100
SDM30-48S15	36~72	15	2.0	100