



Преобразователи модульные серии SKM, SKA

Технические характеристики



По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93



Features

- Compact size: 1"x1" (SKM15), 2"x1" (SKA/DKA15)
- Dual in line package (DIP)
- 2:1 wide input range (4:1 option for SKA/DKA15)
- I/O isolation: 1500VDC (SKM15), 1000VDC (SKA/DKA15); 3000VDC option (SKA/DKA15)
- Protections: Short circuit / Overload / Over voltage (SKM15)
- Six-sided shield metal case
- Cooling by free air convection
- High efficiency up to 88%
- Built-in remote ON/OFF control (SKM15)
- $\pm 10\%$ trimming output (SKM15)
- 2 years warranty

SKM15 Series		SKA15 / DKA15 Series	



Model No.	SKM15	SKA15	DKA15
Vin range	A: 9~18V, B: 18~36V, C: 36~72V (36~75V for SKM15)		
Vo accuracy (Typ.)	±2%		
Line regulation (max.)	±0.5%	±0.2%	
Load regulation (max.)	±0.5% @10~100% load		
Short circuit protection	Continuous, hiccup mode, auto-recovery		
Overload protection	110%~180%, auto-recovery	110%~250%, auto-recovery	
I/O isolation voltage (min.)	1500VDC	1000VDC, 3000VDC (option)	
I/O isolation resistance (min.)	100MΩ@500VDC		
Working temperature	-40~+80°C (refer to output derating curve)	-40~+71°C (refer to output derating curve)	
EMC standards	EN55022 class A, EN61000-4-2,3,4,5,6,8, FCC part15 class A without external components	EN55022 class B, EN61000-4-2,3,4,5,6,8, FCC part15 class B without external components	
Dimension (LxWxH)	1"x 1"x 0.39" (25.4x 25.4x 9.9mm)	2"x 1"x 0.44" (50.8x 25.4x 11.27mm)	

15W-DIP 1"x1" / Regulated / Single Vout SKM15

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
SKM15A-05	9~18	5	3000	50	86
SKM15A-12	9~18	12	1250	60	87
SKM15A-15	9~18	15	1000	60	88
SKM15B-05	18~36	5	3000	50	87
SKM15B-12	18~36	12	1250	60	87
SKM15B-15	18~36	15	1000	60	88
SKM15C-05	36~75	5	3000	50	86
SKM15C-12	36~75	12	1250	60	86
SKM15C-15	36~75	15	1000	60	87

15W-DIP 2"x1" / Regulated / Single Vout SKA15

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
SKA15A-033	9~18	3.3	3000	50	76
SKA15A-05	9~18	5	3000	50	78
SKA15A-12	9~18	12	1250	60	82
SKA15A-15	9~18	15	1000	60	82
SKA15B-033	18~36	3.3	3000	50	76
SKA15B-05	18~36	5	3000	50	78

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
SKA15B-12	18~36	12	1250	60	80
SKA15B-15	18~36	15	1000	60	80
SKA15C-033	36~72	3.3	3000	50	76
SKA15C-05	36~72	5	3000	50	80
SKA15C-12	36~72	12	1250	60	82
SKA15C-15	36~72	15	1000	60	82

15W-DIP 2"x1" / Regulated / Dual Vout DKA15

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
DKA15A-05	9~18	± 5	± 1500	50	80
DKA15A-12	9~18	± 12	± 625	60	83
DKA15A-15	9~18	± 15	± 500	60	83
DKA15B-05	18~36	± 5	± 1500	50	80
DKA15B-12	18~36	± 12	± 625	60	80
DKA15B-15	18~36	± 15	± 500	60	80
DKA15C-05	36~72	± 5	± 1500	50	82
DKA15C-12	36~72	± 12	± 625	60	82
DKA15C-15	36~72	± 15	± 500	60	82

DC/DC Converter

20~50W DIP Module Type



Features

- 2"x1" compact size
- Dual in line package (DIP)
- 2:1 wide input range
- High efficiency up to 92%
- I/O isolation: 1500VDC
- Protections: Short circuit / Overload / Over voltage
- Six-sided shield metal case
- Cooling by free air convection
- Built-in remote ON/OFF control
- $\pm 10\%$ trimming output (SKM30/50)
- 2 years warranty

SKA20 & SKM30 Series			SKM50 Series	
Unit: mm(inch) SKA20		Unit: mm(inch) SKM30	Unit: mm(inch) SKM50	
Pin No.	Output		Pin No.	Output
1	+Vin	+Vin	1	+Vin
2	-Vin	-Vin	2	-Vin
3	+Vout	R.C.	3	R.C.
4	Trim	+Vout	4	+Vout
5	-Vout	-Vout	5	-Vout
6	R.C.	Trim	6	Trim



Model No.	SKA20	SKM30	SKM50
Vin range	A: 9~18V, B: 18~36V, C: 36~75V		
Vo accuracy (Typ.)	±2%		
Line regulation (max.)	±0.2%	±0.2%	
Load regulation (max.)	±0.5% @10~100% load		
Short circuit protection	Continuous, hiccup mode, auto-recovery		
Overload protection	110%~180%, auto-recovery		
I/O isolation voltage (min.)	1500VDC		
I/O isolation resistance (min.)	100MΩ@500VDC		
Working temperature	-40~+85°C (refer to output derating curve)	-40~+75°C (refer to output derating curve)	
EMC standards	EN55022 class A, EN61000-4-2,3,4,5,6,8, FCC part15 class A without external components		
Dimension (LxWxH)	2"x 1"x 0.44" (50.8x 25.4x 11.2mm)	2"x 1"x 0.54" (50.8x 25.4x 13.7mm)	

20W-DIP 2"x1" / Regulated / Single Vout SKA20

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SKA20A-05	9~18	5	4	50	87.5
SKA20A-12	9~18	12	1.66	60	88
SKA20A-15	9~18	15	1.33	60	89
SKA20B-05	18~36	5	4	50	88
SKA20B-12	18~36	12	1.66	60	88.5
SKA20B-15	18~36	15	1.33	60	89.5
SKA20C-05	36~75	5	4	50	88.5
SKA20C-12	36~75	12	1.66	60	87.5
SKA20C-15	36~75	15	1.33	60	88

30W-DIP 2"x1" / Regulated / Single Vout SKM30

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SKM30A-05	9~18	5	6	90	88
SKM30A-12	9~18	12	2.5	120	89.5
SKM30A-15	9~18	15	2	120	89.5

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SKM30B-05	18~36	5	6	90	88.5
SKM30B-12	18~36	12	2.5	120	89
SKM30B-15	18~36	15	2	120	90
SKM30C-05	36~75	5	6	90	88
SKM30C-12	36~75	12	2.5	120	89
SKM30C-15	36~75	15	2	120	90

50W-DIP 2"x1" / Regulated / Single Vout SKM50

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SKM50B-05	18~36	5	10	60	91
SKM50B-12	18~36	12	4.17	80	92
SKM50B-15	18~36	15	3.33	100	90
SKM50C-05	36~75	5	10	60	91
SKM50C-12	36~75	12	4.17	80	91
SKM50C-15	36~75	15	3.33	100	91

DC/DC Converter

15~30W DIP Module Type



Features

- 2"x2" case
- Dual in line package (DIP)
- 2:1 wide input range (4:1 option)
- I/O isolation: 1000VDC; 3000VDC option (SKE/DKE15)
- Protections: Short circuit / Overload
- Six-sided shield metal case
- Cooling by free air convection
- Built-in remote ON/OFF control (DKA/TKA30)
- $\pm 10\%$ trimming output (DKA30)
- 2 years warranty

SKE15 / DKE15 Series

Unit: mm(inch)

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

DKA30 / TKA30 Series

Unit: mm(inch)

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



Model No.	SKE15	DKE15	DKA30	TKA30
Vin range	A: 9~18V, B: 18~36V, C: 36~72V			
Vo accuracy (Typ.)	±2%			
Line regulation (max.)	±0.3%		±0.5%	±1%
Load regulation (max.)	±0.5% @10%~100% load		±0.5% @10%~100% load	+5V ₁ : ±2%; ±V ₂ / V ₃ : ±5%@20%~100% load
Short circuit protection	Continuous, hiccup mode, auto-recovery			
Overload protection	160%~250%, auto-recovery		110%~250%, auto-recovery	
I/O isolation voltage (min.)	1000VDC			
I/O isolation resistance (min.)	100MΩ@500VDC			
Working temperature	-25~+71°C (refer to output derating curve)		-40~+85°C (refer to output derating curve)	
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8, FCC part15 class B without external components			
Dimension (LxWxH)	2"x 2"x 0.43" (50.8x 50.8x 11mm)		2"x 2"x 0.82" (50.8x 50.8x 21mm)	

15W-DIP 2"x2" / Regulated / Single Vout SKE15

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
SKE15A-05	9~18	5	3000	50	79
SKE15A-12	9~18	12	1250	60	80
SKE15A-15	9~18	15	1000	60	80
SKE15A-24	9~18	24	625	80	82
SKE15B-05	18~36	5	3000	50	79
SKE15B-12	18~36	12	1250	60	82
SKE15B-15	18~36	15	1000	60	83
SKE15B-24	18~36	24	625	80	83
SKE15C-05	36~72	5	3000	50	80
SKE15C-12	36~72	12	1250	60	82
SKE15C-15	36~72	15	1000	60	83
SKE15C-24	36~72	24	625	80	84

15W-DIP 2"x2" / Regulated / Dual Vout DKE15

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
DKE15A-05	9~18	± 5	± 1500	50	81
DKE15A-12	9~18	± 12	± 625	60	82
DKE15A-15	9~18	± 15	± 500	60	82
DKE15A-24	9~18	± 24	± 313	80	82
DKE15B-05	18~36	± 5	± 1500	50	83
DKE15B-12	18~36	± 12	± 625	60	83
DKE15B-15	18~36	± 15	± 500	60	83
DKE15B-24	18~36	± 24	± 313	80	84
DKE15C-05	36~72	± 5	± 1500	50	79
DKE15C-12	36~72	± 12	± 625	60	82
DKE15C-15	36~72	± 15	± 500	60	82
DKE15C-24	36~72	± 24	± 313	80	85

30W-DIP 2"x2" / Regulated / Dual Vout DKA30

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
DKA30A-05	9~18	± 5	± 2500	100	80
DKA30A-12	9~18	± 12	± 1250	100	80
DKA30A-15	9~18	± 15	± 1000	100	80
DKA30B-05	18~36	± 5	± 2500	100	80
DKA30B-12	18~36	± 12	± 1250	100	83
DKA30B-15	18~36	± 15	± 1000	100	83
DKA30C-05	36~72	± 5	± 2500	100	80
DKA30C-12	36~72	± 12	± 1250	100	81
DKA30C-15	36~72	± 15	± 1000	100	81

30W-DIP 2"x2" / Regulated / Triple Vout TKA30

Model No.	Vin (VDC)	Vout (VDC)	Iout (mA)	R&N (mVp-p)	Effi. (%)
TKA30A-B	9~18	+5 / ± 12	3500 / ± 310	100	80
TKA30A-C	9~18	+5 / ± 15	3500 / ± 250	100	80
TKA30B-B	18~36	+5 / ± 12	3500 / ± 310	100	82
TKA30B-C	18~36	+5 / ± 15	3500 / ± 250	100	82
TKA30C-B	36~72	+5 / ± 12	3500 / ± 310	100	82
TKA30C-C	36~72	+5 / ± 15	3500 / ± 250	100	82

DC/DC Converter

30~60W DIP Module Type



Features

- 2"x2" compact size
- Dual in line package (DIP)
- 2:1 wide input range
- I/O isolation: 1000VDC (SDM30); 1500VDC (SKA40/60)
- Protections: Short circuit / Overload / Over voltage
- Six-sided shield metal case
- Cooling by free air convection
- High efficiency up to 93%
- Built-in remote ON/OFF control (SKA40/60)
- Built-in remote sense
- $\pm 10\%$ trimming output
- Output 3.3V/9V models available (SKA40),
Output 3.3V available (SKA60)
- 2 years warranty

SDM30 Series		SKA40 / SKA60 Series																																						
Unit: mm		<table><thead><tr><th>Pin No.</th><th>Output</th></tr></thead><tbody><tr><td>1</td><td>+Vin</td></tr><tr><td>2</td><td>-Vin</td></tr><tr><td>3</td><td>No Pin</td></tr><tr><td>4</td><td>Control ON/OFF</td></tr><tr><td>5</td><td>No Pin</td></tr><tr><td>6</td><td>+Vout</td></tr><tr><td>7</td><td>-Vout</td></tr><tr><td>8</td><td>Trim</td></tr></tbody></table>	Pin No.	Output	1	+Vin	2	-Vin	3	No Pin	4	Control ON/OFF	5	No Pin	6	+Vout	7	-Vout	8	Trim	Unit: mm(inch)	<table><thead><tr><th>Pin No.</th><th>Output</th></tr></thead><tbody><tr><td>1</td><td>R.C.</td></tr><tr><td>2</td><td>-Vin</td></tr><tr><td>3</td><td>+Vin</td></tr><tr><td>4</td><td>-R.S</td></tr><tr><td>5</td><td>+R.S</td></tr><tr><td>6</td><td>+Vout</td></tr><tr><td>7</td><td>-Vout</td></tr><tr><td>8</td><td>Trim</td></tr></tbody></table>	Pin No.	Output	1	R.C.	2	-Vin	3	+Vin	4	-R.S	5	+R.S	6	+Vout	7	-Vout	8	Trim
Pin No.	Output																																							
1	+Vin																																							
2	-Vin																																							
3	No Pin																																							
4	Control ON/OFF																																							
5	No Pin																																							
6	+Vout																																							
7	-Vout																																							
8	Trim																																							
Pin No.	Output																																							
1	R.C.																																							
2	-Vin																																							
3	+Vin																																							
4	-R.S																																							
5	+R.S																																							
6	+Vout																																							
7	-Vout																																							
8	Trim																																							



(except for SDM30)

Model No.	SDM30	SKA40	SKA60
Vin range	A: 9.2~18V, B: 18~36V, C: 36~72V	A: 9~18V, B: 18~36V, C: 36~75V	
Vo accuracy (Typ.)	$\pm 2\%$ ($\pm 3\%$ for 3.3VDC models)	$\pm 2\%$	
Line regulation (max.)	$\pm 1\%$	$\pm 0.5\%$	
Load regulation (max.)	$\pm 1\%$ @10%~100% load	$\pm 0.5\%$ @10%~100% load	
Overload protection	Over 105% power limiting, auto-recovery	110%~180%, auto-recovery	
Short circuit protection	Continuous, constant current limiting, auto-recovery	Continuous, hiccup mode, auto-recovery	
I/O isolation voltage (min.)	1000VDC	1500VDC	
I/O isolation resistance (min.)	100M Ω @500VDC		
Working temperature	-25~+85°C	-40~+80°C	-40~+70°C
EMC standards	EN55022 class B, EN61000-4-2,3,4,6,8	EN55022 class A, EN61000-4-2,3,4,5,6,8, FCC part15 classA without external components	
Dimension (LxWxH)	2"x 2"x 0.63" (50.8x 50.8x 16mm)	2"x 2"x 0.43" (50.8x 50.8x 11mm)	

30W-DIP 2"x2" / Regulated / Single Vout SDM30

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SDM30-12S3	9.2~18	3.3	5.0	75	77
SDM30-12S5	9.2~18	5	5.0	75	77
SDM30-12S12	9.2~18	12	2.1	100	80
SDM30-12S15	9.2~18	15	1.7	100	80
SDM30-24S3	18~36	3.3	5.0	75	79
SDM30-24S5	18~36	5	5.0	75	79
SDM30-24S12	18~36	12	2.5	100	82
SDM30-24S15	18~36	15	2.0	100	83
SDM30-48S3	36~72	3.3	5.0	75	80
SDM30-48S5	36~72	5	5.0	75	80
SDM30-48S12	36~72	12	2.5	100	84
SDM30-48S15	36~72	15	2.0	100	85

40W-DIP 2"x2" / Regulated / Single Vout SKA40

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SKA40A-05	9~18	5	7.00	60	91
SKA40A-12	9~18	12	3.33	80	90
SKA40A-15	9~18	15	2.67	100	90

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SKA40B-05	18~36	5	7.00	60	92
SKA40B-12	18~36	12	3.33	80	90
SKA40B-15	18~36	15	2.67	100	90.5
SKA40C-05	36~75	5	7.00	60	91
SKA40C-12	36~75	12	3.33	80	88.5
SKA40C-15	36~75	15	2.67	100	90

60W-DIP 2"x2" / Regulated / Single Vout SKA60

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SKA60A-05	9~18	5	12	60	91
SKA60A-12	9~18	12	5	80	92
SKA60A-15	9~18	15	4	100	92
SKA60B-05	18~36	5	12	60	90.5
SKA60B-12	18~36	12	5	80	92.5
SKA60B-15	18~36	15	4	100	93
SKA60C-05	36~75	5	12	60	92
SKA60C-12	36~75	12	5	80	92
SKA60C-15	36~75	15	4	100	92.5

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

сайт: <http://meanwell.nt-rt.ru> | **эл. почта:** mlw@nt-rt.ru