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Jameco Part Number 216945



■ Features :

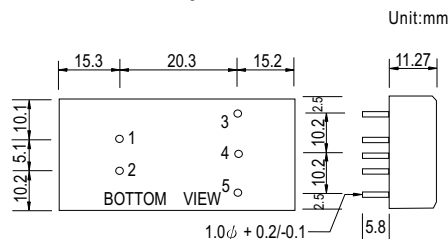
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Input Pi network filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / CE
- 1 year warranty



SPECIFICATION

ORDER NO.		SKE10A-05	SKE10B-05	SKE10C-05	SKE10A-12	SKE10B-12	SKE10C-12	SKE10A-15	SKE10B-15	SKE10C-15	SKE10A-24	SKE10B-24	SKE10C-24	
OUTPUT	DC VOLTAGE	5V			12V			15V			24V			
	CURRENT RANGE	200 ~ 2000mA			84 ~ 840mA			66.6 ~ 666mA			42 ~ 420mA			
	RATED POWER	10W												
	RIPPLE & NOISE (max.) Note.2	50mVp-p			60mVp-p			60mVp-p			80mVp-p			
	LINE REGULATION Note.3	±0.3%												
	LOAD REGULATION Note.4	±0.5%												
	VOLTAGE ACCURACY	±2.0%												
	SWITCHING FREQUENCY	200KHz min.												
INPUT	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC												
	EFFICIENCY (Typ.)	78%	79%	80%	79%	81%	81%	80%	82%	82%	81%	82%	83%	
	DC CURRENT	Full load	A: 1100mA B: 530mA C: 270mA											
		No load	A: 28mA B: 16mA C: 8mA											
	FILTER	Pi network												
PROTECTION (Note. 5)	OVER CURRENT	160% ~ 250% rated output power												
		Protection type : Hiccup mode, recovers automatically after fault condition is removed												
	SHORT CIRCUIT	All output equipped with short circuit												
		Protection type : Hiccup mode, recovers automatically after fault condition is removed												
ENVIRONMENT	WORKING TEMP.	-25 ~ +71℃ (Refer to output load derating curve)												
	WORKING HUMIDITY	20% ~ 90% RH non-condensing												
	STORAGE TEMP., HUMIDITY	-25 ~ +105℃, 10 ~ 95% RH												
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50℃)												
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes												
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:1KVDC												
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH												
	EMI CONDUCTION & RADIATION	Compliance to EN55022 Class B, FCC part 15 Class B												
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A												
OTHERS	MTBF	500khrs min. MIL-HDBK-217F(25℃)												
	DIMENSION	50.8*25.4*11.2mm or 2***1**0.44" inch (L*W*H)												
	WEIGHT	32g												

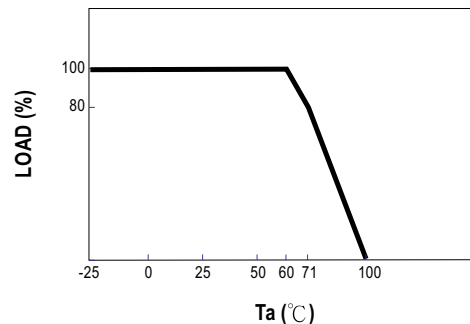
■ Mechanical Specification



■ Pin Configuration

Pin no.	Output
1	+Vin
2	-Vin
3	+Vout
4	No Pin
5	-Vout

■ Derating Curve



NOTE

1. All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
2. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
3. Line regulation is measured from low line to high line at rated load.
4. Load regulation is measured from 10% to 100% rated load.
5. Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.

Quality Engineering Test Report

SERIES: SKE10C 10W DC-DC SINGLE OUTPUT CONVERTER

SAMPLE:
A:SKE10C-05 5V / 2A
B:SKE10C-12 12V / 0.84A

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
1	DC INPUT VOLTAGE RANGE	I/P : TESTING SPEC : 36~72VDC O/P : FULL LOAD	A:29~72VDC	P								
2	LINE REGULATION	I/P : 36~72VDC SPEC : ±0.3% O/P : FULL LOAD	A: 0% ~ 0% B: -0.3% ~ +0.1%	P								
3	LOAD REGULATION	I/P : 48VDC SPEC : ±1% O/P : MIN. TO FULL LOAD	A: -0.2% ~ +0.4% B: -0.1% ~ +0.2%	P								
4	OUTPUT VOLTAGE TOLERANCE	I/P : 36~72VDC SPEC : NONE O/P : MIN. TO FULL LOAD	A: -0.2% ~ +0.4% B: -0.3% ~ +0.3%	P								
5	RIPPLE & NOISE	I/P : 48VDC SPEC : A:50mV B:60mV O/P : FULL LOAD	A: 23mV B: 20mV	P								
6	DC INPUT CURRENT	I/P : 48VDC SPEC : NONE O/P : FULL LOAD	A:0.26A	P								
7	O/P VOLTAGE ACCURACY	I/P : 48VDC SPEC : ±2% O/P : MIN. LOAD	A: 5.02V B: 12.1V	P								
8	SET UP TIME	I/P : 48VDC SPEC : NONE O/P : FULL LOAD	A:236mS	P								
9	EFFICIENCY	I/P : 48VDC SPEC : >76% O/P : FULL LOAD	A: 80.1% B: 87.5%	P								
10	OVER LOAD PROTECTION	I/P : 48VDC SPEC : NONE O/P : TESTING	A: 174% B: 167%	P								
11	INSULATION RESISTANCE	SPEC : I/P – O/P : 500VDC/100MΩ MIN.	A: I/P – O/P > 100M Ω	P								
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC : I/P – O/P : 500VDC/ 1 min (10mA CUT-OFF)	A: I/P – O/P : <0.5mA	P								
13	BURN-IN TEST	I/P:48VDC O/P:FULL LOAD TA:22 °C BURN-IN DURATION : 4 hrs	A: NO BREAK B: NO BREAK	P								
14	TEMPERATURE RISE TEST ΔT OF PARTS	A: I/P : 48VDC AFTER 4 hrs BURN-IN O/P : FULL LOAD TA : 24 °C <table><tr><td>POSITION</td><td>SAMPLE</td><td>TEMP</td><td>ΔT</td></tr><tr><td>CASE</td><td>SKE10C-05</td><td>49.7°C</td><td>25.7°C</td></tr></table>		POSITION	SAMPLE	TEMP	ΔT	CASE	SKE10C-05	49.7°C	25.7°C	P
POSITION	SAMPLE	TEMP	ΔT									
CASE	SKE10C-05	49.7°C	25.7°C									
15	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 以塑膠泡墊保護PIN腳,再以紙盒包裝 2. MARKING : MODEL LABELx1 3. MECHANICAL : MODULAR TYPE, PIN OUTPUT:1.0Φx7mm										
DATE		SAMPLE		TEST RESULT		TEST	APPROVAL					
980729		SKE10C-05 SKE10C-12		PASS		鄭讚國	MAX LIN					