



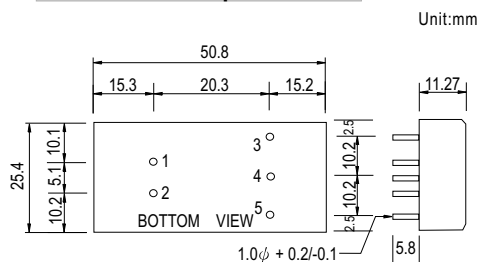
- Features :
 - 2:1 wide input range
 - 4:1 wide input range(option)
 - 1000VDC I/O isolation
 - 3000VDC I/O isolation(option)
 - Built-in EMI filter
 - Protections: Short circuit / Overload
 - Cooling by free air convection
 - Six-sided shield metal case
 - 100% burn-in test
 - Low cost / High reliability
 - Approvals: FCC / CE
 - 2 years 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			12V			15V			24V		
	CURRENT RANGE			84 ~ 840mA			66.6 ~ 666mA			42 ~ 420mA		
	RATED POWER											
	RIPPLE & NOISE (max.) Note.2			60mVp-p			60mVp-p			80mVp-p		
	LINE REGULATION Note.3											
	LOAD REGULATION Note.4											
	VOLTAGE ACCURACY											
	SWITCHING FREQUENCY											
INPUT	VOLTAGE RANGE											
	EFFICIENCY (Typ.)											
	DC CURRENT											
	FILTER											
	PROTECTION											
PROTECTION (Note. 5)	OVER CURRENT											
	SHORT CIRCUIT											
	ENVIRONMENT											
ENVIRONMENT	WORKING TEMP.											
	WORKING HUMIDITY											
	STORAGE TEMP., HUMIDITY											
	TEMP. COEFFICIENT											
	VIBRATION											
SAFETY & EMC	WITHSTAND VOLTAGE											
	ISOLATION RESISTANCE											
	EMI CONDUCTION & RADIATION											
	EMS IMMUNITY											
OTHERS	MTBF											
	DIMENSION											
	WEIGHT											

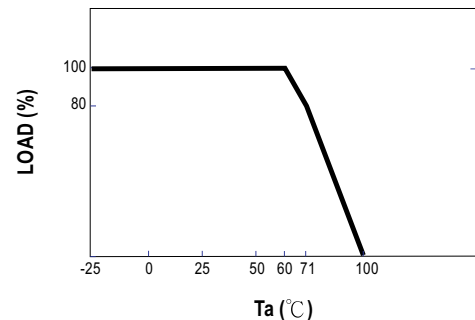
■ Mechanical Specification



■ Pin Configuration

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

■ Derating Curve



NOTE

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

Model : SKE10A-24 10W DC-DC Single Output Converter
 V1 : 24V / 42~420mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2% (Max)	I/P:12VDC O/P:50% LOAD Ta:25°C	0 %	P
2	RIPPLE & NOISE	80mVp-p (Max)	I/P:12VDC O/P:FULL LOAD Ta:25°C	23mV	P
3	LINE REGULATION	-0.3%~+0.3% (Max)	I/P:9VDC~18VDC O/P:FULL LOAD Ta:25°C	-0%~+0%	P
4	LOAD REGULATION	-0.5%~+0.5% (Max)	I/P:12VDC O/P:MIN~FULL LOAD Ta:25°C	-0%~+0%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	DC VOLTAGE RANGE	9VDC~18VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	8.3V~18V	P
2	EFFICIENCY	81% (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	79.8%	P
3	DC CURRENT	1100mA (Max)	I/P:12VDC O/P:FULL LOAD Ta:25°C	1052mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	160%~250% (Max)	I/P:12VDC O/P:TESTING Ta:25°C	209% Hiccup Mode Reset Auto Recovery	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:12VDC O/P:FULL LOAD Ta:25°C	NO DAMAGE Hiccup Mode Reset Auto Recovery	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT	
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 6HRS I/P:12VDC O/P:FULL LOAD Ta=25°C			P	
			Position	P/N		TEMP Ta=25°C
			CASE	SKE10A-24		47.8°C

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:1KVDC/min	I/P-O/P:1KVDC/min Ta:25°C	I/P-O/P:0.02mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P:500VDC Ta:25°C	I/P-O/P:30GΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2003.9.17	SKE10A-24	PASS	FRANK.CHEN	MAX LIN