



FEATURES

90W-100W DIL PACKAGE

CUITDUT CDECIFICATIONS

- INDUSTRY STANDARD PACKAGE
- 18V-36V,36V-75V WIDE INPUT RANGE
- 100% BURN IN
- UL 94V-0 PACKAGE MATERIAL
- CUSTOM SOLUTIONS AVAILABLE



INDUT SPECIFICATIONS

OUTPUT SPECIFICA	TIONS	INPUT SPECIFICATION	S
Voltage Setpoint Accuracy	+/-2% max.	Input Voltage Range	2:1
Temperature Coefficient	+/-0.03%/°C	Input Filter	Pi Network
Ripple & Noise(20MHz BW) ¹	150mVp-p max.	Protection	Fuse Recommended
Line Regulation ²	+/-0.5% max.	OVLO(Over Voltage Lockout)	See Page 4
Load Regulation ³	+/-0.5% max.	UVLO(Under Voltage Lockout)	See Page 4
Minimum load		OVLO & UVLO Circuit Restart	Automatic
Short Circuit Protection		Remote ON/OFF Control	Table 1
Short Circuit Restart	Automatic	GENERAL SPECIFICAT	TIONS
External Trim Adj. Range	+/-10%	Efficiency	92% typ.
Over Load Protection	150% typ.	Isolation Voltage⁴	1500 VDC min.
Transient Response⁵	500uS max.	Isolation Resistance	10 ⁹ ohms min.
		Isolation Capacitance	2500pF max.
		Switching Frequency	250KHz typ.
		Weight	67g typ.
ENVIRONMENTAL SI	PECIFICATIONS	Case Material	Six-Side Shielded Case
Operating Temperature	-40°C to +25°C	Case Size	50.8mm*50.8mm*11mm
Case Temperature	+110 [°] C max.	Potting Material	Epoxy(UL94-V0)
Storage Temperature	-55 [°] C to +110 [°] C	Conducted Emissions	EN55022 Class A
Humidity	95% max.	Radiated Emissions	EN55022 Class A
Cooling	Free-Air Convection		
		0	

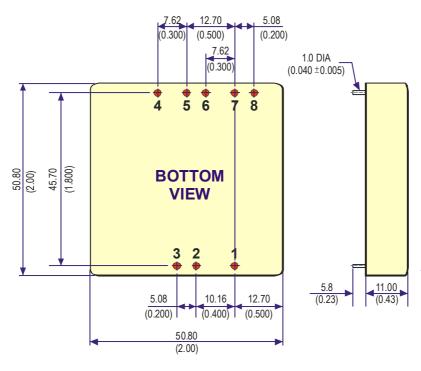
ALL SPECIFICATIONS TYPICAL AT NOMINAL LINE, FULL LOAD , AND 25 $^{\circ}$ C UNLESS OTHERWISE NOTED.

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SELECTION GUIDE 2:1 100W OUTPUT

MODEL NUMBER	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	INP CURRE FULL LOAD		EFF (%) ⁷	CAPACITOR LOAD (Max)
SKHWS-2405-90W	18-36	5	18000	4076	100	92	1000uF
SKHWS -2412-100W	18-36	12	8333	4529	100	92	220uF
SKHWS -2415-100W	18-36	15	6666	4529	100	92	100uF
SKHWS-4805-90W	36-75	5	18000	2038	50	92	1000uF
SKHWS-4812-100W	36-75	12	8333	2264	50	92	220uF
SKHWS-4815-100W	36-75	15	6666	2264	50	92	100uF

MECHANICAL DIMENSIONS



PIN	SINGLE		
1	Remote On/Off		
2	-Vin		
3	+Vin		
4	-Sense		
5	+Sense		
6	+Vout		
7	-Vout		
8	Trim		

All dimensions in mm(inches).

NOTE: Pin Size is Tolerance 1.0 Φ ±0.10mm All Dimensions In mm(Inches) Tolerance .X or .XX= ±0.5mm

RECOMMENDED FOOTPRINT DETAILS

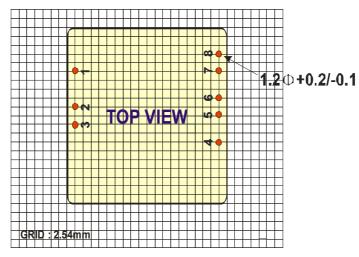
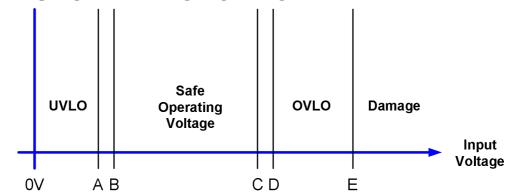


Table1 (Remote On/Off Control)

Remote On/Off Control					
Control Input	PIN1	Control Common	PIN2		
Control Voltage		Converter Shutdown Idle Current	10mA		
ON	>+2.5VDC or Open Circuit		CMOS or Open		
OFF	<+0.9VDC or Jumper to PIN2	Logic Compatibility	Collector TTL		

INPUT OPERATING VOLTAGE

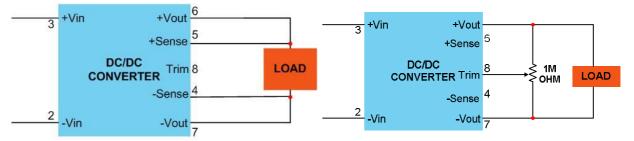


	A	В	С	D	E
SKHWS-24****	16V typ.	18V	36V	40V typ.	50V
SKHWS-48****	34V typ.	36V	75V	80V typ.	100V

TYPICAL APPLICATIONS

FIXED VOLTAGE OUTPUT

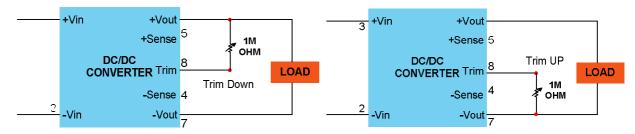
TRIM CONNECTIONS USING A TRIMPOT



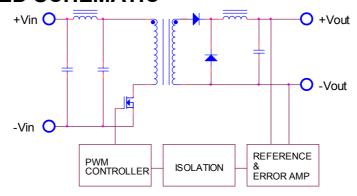
FIXED-VALUE TRIM DOWN RESISTOR

FIXED-VALUE TRIM UP RESISTOR

TEMPERATURE DERATING



SIMPLIFIED SCHEMATIC



TYPICAL PERFORMANCE CURVES

OUTPUT LOAD VS EFFICIENCY

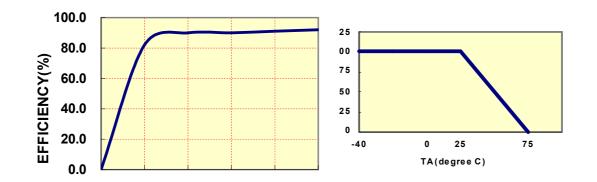
0

20

40

OF RATED LOAD(%)

Specifications typical at Ta=25 °C, nominal input voltage, rated output current unless otherwise specified.

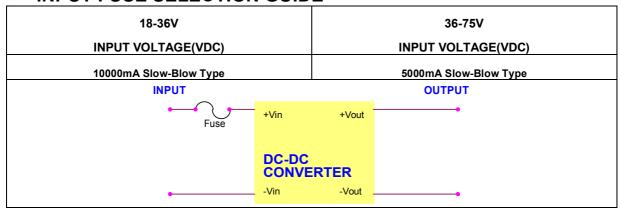


100

80

60

INPUT FUSE SELECTION GUIDE



Note: Certain applications may require the installation of external fuse in front of the input.

SKHWS-100W SERIES APPLICATION NOTES: EXTERNAL CAPACITANCE REQUIREMENTS:

External output capacitance is not required for operation, however it is recommended that 10uF MLCC and 0.1uF ceramic capacitance be selected for reduced system noise.

Additional output capacitance may be added for increased filtering, but should not exceed 1000uF.

Negative Outputs:

A negative output voltage may be obtained by connecting the +OUT to circuit ground and connecting –OUT as the negative output.

Remote ON/OFF:

The remote ON/OFF pin may be left floating if this function is not use. It is recommended to drive this pin with an open collector arrangement or a relay contact. When the ON/OFF pin is pulled low with respect to the –Vin, the converter is placed in a low power drain state.

Output TRIM:

The TRIM pin may be used to adjust the output +/-10% from the nominal setting .this function allows adjustment for voltage drops in the system wiring. If the TRIM function is not required the pin may be left floating.

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