

- Wide 2 : 1 Input Range
- High Efficiency
- Regulated Outputs
- 500V Isolation
- Epoxy encapsulated
- Short circuit protection

SKE25, DKE25, TKE25 Series



Unit measures 2.85"W x 2.66"L x 0.866"H

MODEL SELECTIONS

Output Voltage	Output Amps	Input Range	Model Number	Price 1	Price 10
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SINGLE OUTPUT

5 VDC	5	9-18VDC	SKE25A-05	\$69	\$65
	5	18-36VDC	SKE25B-05	\$69	\$65
	5	36-72VDC	SKE25C-05	\$69	\$65
12 VDC	2.1	9-18VDC	SKE25A-12	\$69	\$65
	2.1	18-36VDC	SKE25B-12	\$69	\$65
	2.1	36-72VDC	SKE25C-12	\$69	\$65
15 VDC	1.7	9-18VDC	SKE25A-15	\$69	\$65
	1.7	18-36VDC	SKE25B-15	\$69	\$65
	1.7	36-72VDC	SKE25C-15	\$69	\$65

DUAL OUTPUT

+/-5 VDC	+/-2.5	9-18VDC	DKE25A-05	\$71	\$67
	+/-2.5	18-36VDC	DKE25B-05	\$71	\$67
	+/-2.5	36-72VDC	DKE25C-05	\$71	\$67
+/-12 VDC	+/-1.05	9-18VDC	DKE25A-12	\$71	\$67
	+/-1.05	18-36VDC	DKE25B-12	\$71	\$67
	+/-1.05	36-72VDC	DKE25C-12	\$71	\$67
+/-15 VDC	+/-0.85	9-18VDC	DKE25A-15	\$71	\$67
	+/-0.85	18-36VDC	DKE25B-15	\$71	\$67
	+/-0.85	36-72VDC	DKE25C-15	\$71	\$67

TRIPLE OUTPUT

+5,+/-12	4,+/-0.25	9-18VDC	TKE25A-B	\$73	\$69
+5,+/-12	4,+/-0.25	18-36VDC	TKE25A-B	\$73	\$69
+5,+/-12	4,+/-0.25	36-72VDC	TKE25A-B	\$73	\$69
+5,+/-15	3.5,+/-0.25	9-18VDC	TKE25A-B	\$73	\$69
+5,+/-15	3.5,+/-0.25	18-36VDC	TKE25A-B	\$73	\$69
+5,+/-15	3.5,+/-0.25	36-72VDC	TKE25A-B	\$73	\$69

**Contact
Factory
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High Volume
Pricing**

ASTRODYNE *CostCutter* Isolated and Regulated 25 Watt Modular DC/DC Converters

All specifications are typical at nominal input, full load, and 25DegC
unless otherwise noted

INPUT SPECIFICATIONS

Input Voltage, Nominal	12VDC, 24VDC, 48VDC
Input Voltage Ranges	9-18, 18-36, 36-72VDC
Input Surge Voltage	30V (12V Models), * 52V (24V Models), * 96V (48V Models), * 10 mS duration, min.

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation	+/- 1%, NL - FL (Single) +/- 2%, 20% - FL (Dual/Triple)
Line Regulation	+/- 0.5%, typ
Temperature Coefficient	+/-0.02%/DegC (0~50°C)
Ripple/Noise(Single/Dual)	60mV Pk-Pk, typ
Overcurrent Protection	160-220%, Auto Recovery *
Voltage Stability	+/-2%, max
Transient Response	<0.250 msec / 25% Load Step Change, max
Short Circuit Protection	Continuous, self-recovering

GENERAL SPECIFICATIONS

On/Off Control	(Ref to - Input pin) Logic "0"/Open=ON Logic "1"=OFF
Shutdown Idle Current	60mA, typ
Input-Out Isolation	500VDC
In/Out Capacitance	10000 pF
Efficiency	82%, typ
Switching Frequency	100Khz

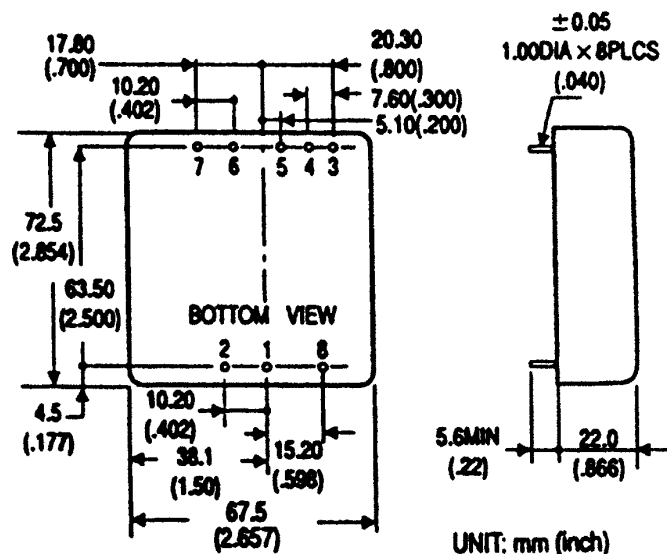
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-15°C to +60°C (FL) 80% Load @ 71°C
Storage Temperature	-25°C to +85°C *
Maximum Case Temp	80 DegC *
Input Fusing	12V: 3A, 24V:2A, 48V: 1A
MTBF	SKE25 DKE25 TKE25
kHrs	155 142 114
Shock/Vibration	Mil Std 217F, 25C To MIL-STD 810C

PHYSICAL SPECIFICATIONS

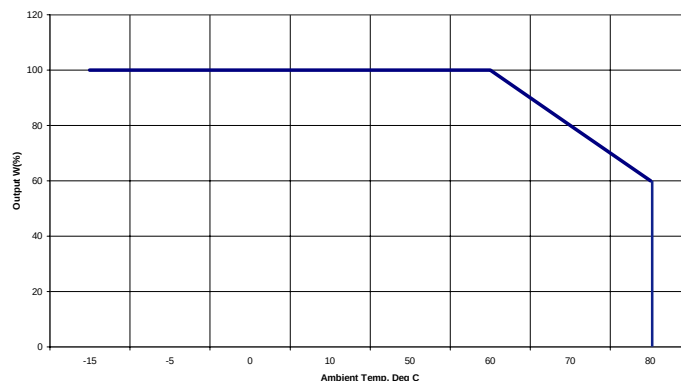
Case Material	Six-Sided Shield Metal Case
Construction	Fully Encapsulated
Weight	6.79 oz, (190g)

MECHANICAL DIMENSIONS



Pin #	Single	Dual	Triple
1	+ Input	+ Input	+ Input
2	- Input	- Input	- Input
3	+ Sense	- Output	+ Output
4	Trim	Common	Common
5	- Sense	No Connection	- Output
6	+ Output	+ Output	+5 Volt
7	- Output	Common	Common
8	Control	Control	Control

OUTPUT DERATING CURVE



Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.

* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

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