



OHM
POWER
SOLUTIONS

DK8-3/11

160/175Watt
EIGHT ISOLATED OUTPUTS

DC/DC Converter





Features:

- High Efficiency – up to 83%
- Fully protected for Over Load/Short, Over-voltage and Over-Temperature
- Eight isolated outputs.
- Base Plate cooling
- No external EMI filter needed

Typical applications:

- Military
- Ruggedized
- Telecom
- Industrial





General specification	
DC Input	
Input voltage range	18-36V _{DC}
Input Per MIL-STD-704A	(Including 80V for 100ms – no damage)
Input Per MIL-STD-1275A	(Including 100V for 50ms – no damage)
Protection	Reverse Polarity Protection
DC Output	
Output voltage / Current	See table below
Line Load & Temperature regulation	< +/-2%
Current limit on each output	115% - 130% of rated current
OVP	Over-Voltage on each output - Non-latch type
Turn on Transient	No turn on transient
Isolation	
Input to Output:	200 V _{DC}
Input to Case:	200 V _{DC}
Output to Case:	200 V _{DC}
Interface	
Control Signals	TTL logic
Inhibit Signals	ON/OFF = Open, P.S. is ON . ON/OFF = GND (-2V ÷ +2V) P.S. is OFF
External Sync	OPTIONAL
Internal Switching frequency	Internal frequency source: 250 KHz
Environmental	
Operating Temperature	-55°C to +85°C Base plate
Over-Temperature protection	to +105°C with auto recovery at +95°C
Shock & Vibration	per MIL-STD-810D
EMI-RFI	per MIL-STD-461E
Mechanical	
Size L x H x W (mm)	129.5 x 15.5 x 104
Weight (grams)	350 MAX
Cooling	Base plate
Input/Output connector	Airborn P/N: M55302/61A36 or Eq.



Ordering information

MODEL #	OUTPUT #	INPUT Voltage (V)	OUTPUT Voltage (V)	OUTPUT Current (A)	POWER (W)	POWER TOTAL (W)	R&N (mV)
DK8-3/DK8-11*	1	28	3.34	8	26.72	157.4	33
	2		1.8/1.23*	2	3.6/2.46*		30
	3		1.02/5*	2/4*	2.04/20*		30
	4		28	1.25	35		280
	5		28	1.25	35		280
	6		5	5	25		50
	7		15	1	15		150
	8		-15	1	15		150

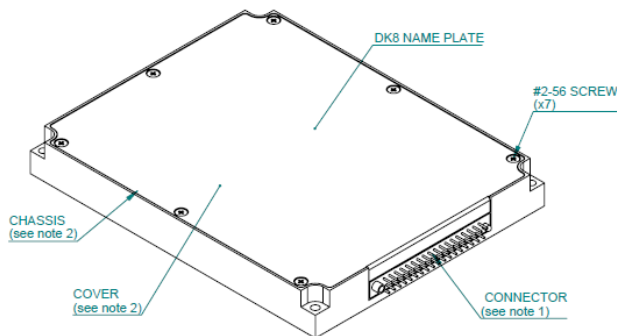
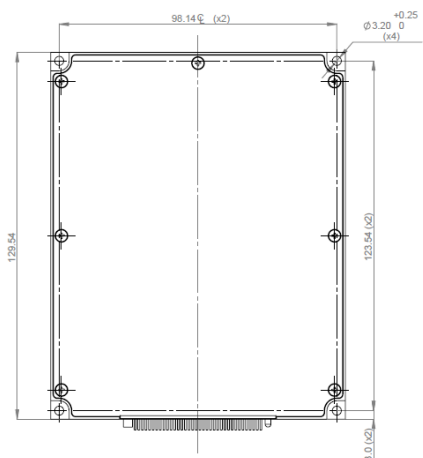
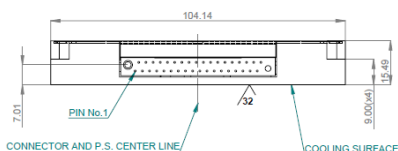
*FOR DK8-11 ONLY

CONNECTOR PIN – Assignment

PIN #	PIN Function	PIN #	PIN Function	PIN #	PIN Function	PIN #	PIN Function
1	+5V_OUT	10	+28V1_OUT	19	P2	28	VIN_RTN
2	+5V_OUT	11	VIN_RTN	20	P2	29	VIN_RTN
3	PB	12	VIN_RTN(+VINPUT)*	21	SIG_RTN	30	+VININPUT
4	PB	13	+VININPUT	22	+28V2_OUT	31	+VININPUT(P3)*
5	+28V2_OUT	14	+VININPUT(P3)*	23	INHIBIT	32	+3V34_OUT
6	-15V_OUT	15	+3V34_OUT	24	SYNC_IN	33	P1
7	PD	16	P1	25	+3V34_OUT_SNS	34	P1
8	+15V_OUT	17	+1V23_OUT	26	PA	35	+1V23_OTU
9	PA	18	+1V04_OUT(+5VB_OUT)*	27	+28V1_OUT	36	+1V04_OUT(+5VB_OUT)*

*FOR DK8-11 ONLY

Outline Drawing



Note: Specifications are subject to change without prior notice by the manufacturer.
Additional configurations and modifications available. Contact us for more details.