



■ 特性

- ◆ 外型尺寸:139x88x26.5mm
- ◆ 输入与输出为双边式接线端子
- ◆ 低压、五倍电压输入，单路、独立双路输出
- ◆ 金属壳封装，六面屏蔽，多种保护功能

■ 产品特性 (除特殊说明，其它所有参数测试条件为：标称输入电压，全阻性标称负载和25℃室温环境)

输入特性		注释
标称值9	6~30VDC	
标称值12	9~18VDC	
标称值18	9~36VDC	
输入电压 标称值24	18~36VDC	
标称值36	18~72VDC	
标称值48	36~72VDC	
标称值110	70~150VDC	
遥控特性	输出正常	CTL端接高电平或悬空
	输出关断	CTL端接低电平或接地 (0~0.4)

输出特性

输出电压精度	±1%	Vo1, Vo2
源效应	±0.2%	(标称负载 全电压输入范围)
负载效应	±0.5%	(标称输入, 10%-100%标称负载)
输出过流保护	≥120%Io	
瞬态响应	±3%/200us	
输出电压调节	±10%	接线电路见附录应用指南
输出过温保护(壳温)	≥100℃	自恢复(当壳温低于100℃)

一般特性

开关频率	180KHz	典型值
隔离电压	1500Vdc	输入对输出
	1500Vdc	输入对壳
	500Vdc	输出对壳
绝缘电阻	100MΩ	
短路保护	短路自恢复	
温度系数	0.03%/℃	
工作温度	-25~+85℃	工作壳温(工业级)
	-40~+85℃	工作壳温(军工级)
储存温度	-40~+105℃	工业级
	-55~+105℃	军工级
冷却方式	外加散热器	
平均无故障时间MTBF	2×10 ⁶ hrs	MIL-HDBK-217
重量	457g	标准产品

■ 产品选型表

型号	输出功率 W	输入电压范围 VDC	输出纹波 mV	输出电压VDC	输出电流A	效率 %
				Vo1/Vo2	Io1/Io2	
HDK60A-18S05	60	6-30	50	5	12.0	80
HDK60A-18S12			100	12	5.0	81
HDK60A-18S15			120	15	4.0	82
HDK150A-12S05	150	9-18	50	5	30.0	80
HDK150A-12S12			100	12	12.5	81
HDK150A-12S15			120	15	10.0	82
HDK150A-12S24			200	24	6.25	83
HDK200A-12S12	200	9-18	100	12	16.7	81
HDK200A-12S15			120	15	13.3	82
HDK200A-12S24			200	24	8.3	83
HDK300A-12S12	300	9-18	100	12	25.0	81
HDK300A-12S15			120	15	20.0	82
HDK300A-12S24			200	24	12.5	83
HDK300A-12S48			300	48	6.25	84
HDK150A-12D03V05	150	9-18	50/50	3.3/5	15/20	80
HDK150A-12D12V03			100/50	12/3.3	8.3/15	80
HDK250A-12D05V05	250	9-18	50/50	5/5	20/30	80
HDK250A-12D05V12			50/100	5/12	20/12.5	81
HDK250A-12D05V15			50/120	5/15	20/10	82
HDK250A-12D05V24			50/200	5/24	20/6.25	83
HDK250A-12D05V48			50/300	5/48	20/3.125	84
HDK250A-12D12V05			100/50	12/5	8.33/30	80
HDK250A-12D12V12	250	9-18	100/100	12/12	8.33/12.5	81
HDK250A-12D12V15			100/120	12/15	8.33/10	82
HDK250A-12D12V24			100/200	12/24	8.33/6.25	83
HDK250A-12D12V48			100/300	12/48	8.33/3.125	84
HDK250A-12D24V05			200/50	24/5	4.17/30	80
HDK250A-12D24V12	250	9-18	200/100	24/12	4.17/12.5	81
HDK250A-12D24V15			200/120	24/15	4.17/10	82
HDK250A-12D24V24			200/200	24/24	4.17/6.25	83
HDK250A-12D24V48			200/300	24/48	4.17/3.125	84
HDK250A-12D48V05			250	9-18	300/50	48/5
HDK250A-12D48V12	300/100	48/12			2.08/12.5	81
HDK250A-12D48V15	300/120	48/15			2.08/10	82
HDK250A-12D48V24	300/200	48/24			2.08/6.25	83
HDK250A-12D48V48	300/300	48/48			2.08/3.125	84

■ 产品选型表

型号	输出功率 W	输入电压范围 VDC	输出纹波 mV	输出电压VDC		效率 %
				Vo1/Vo2	Io1/Io2	
HDK150A-24S05	150	18-36	50	5	30.0	81
HDK150A-24S12			100	12	12.5	82
HDK150A-24S15			120	15	10.0	83
HDK150A-24S24			200	24	6.25	84
HDK200A-24S05	200	18-36	50	5	40.0	81
HDK200A-24S12			100	12	16.7	82
HDK200A-24S15			120	15	13.3	83
HDK200A-24S24			200	24	8.3	84
HDK300A-24S12	300	18-36	100	12	25.0	82
HDK300A-24S15			120	15	20.0	83
HDK300A-24S24			200	24	12.5	84
HDK300A-24S48			300	48	6.25	84
HDK500A-24S12	500	18-36	100	12	41.67	82
HDK500A-24S15			120	15	33.3	83
HDK500A-24S24			200	24	20.83	84
HDK500A-24S48			300	48	10.42	84
HDK150A-24D03V05	150	18-36	50/50	3.3/5	15/20	81
HDK150A-24D12V03			100/50	12/3.3	8.3/15	81
HDK300A-24D05V12	300	18-36	50/100	5/12	20/16.67	82
HDK300A-24D05V15			50/120	5/15	20/13.3	83
HDK300A-24D05V24			50/200	5/24	20/8.33	84
HDK300A-24D05V48			50/300	5/48	20/4.17	84
HDK300A-24D12V12	300	18-36	100/100	12/12	8.33/16.67	82
HDK300A-24D12V15			100/120	12/15	8.33/13.3	83
HDK300A-24D12V24			100/200	12/24	8.33/8.33	84
HDK300A-24D12V48			100/300	12/48	8.33/4.17	84
HDK300A-24D24V12	300	18-36	200/100	24/12	4.17/16.67	82
HDK300A-24D24V15			200/120	24/15	4.17/13.3	83
HDK300A-24D24V24			200/200	24/24	4.17/8.33	84
HDK300A-24D24V48			200/300	24/48	4.17/4.17	84
HDK300A-24D48V12	300	18-36	300/100	48/12	2.08/16.67	82
HDK300A-24D48V15			300/120	48/15	2.08/13.3	83
HDK300A-24D48V24			300/200	48/24	2.08/8.33	84
HDK300A-24D48V48			300/300	48/48	2.08/4.17	84
HDK150A-48S05	150	36-72	50	5	30.0	82
HDK150A-48S12			100	12	12.5	83
HDK150A-48S15			120	15	10.0	84
HDK150A-48S24			200	24	6.25	84
HDK200A-48S05	200	36-72	50	5	40.0	82

■ 产品选型表

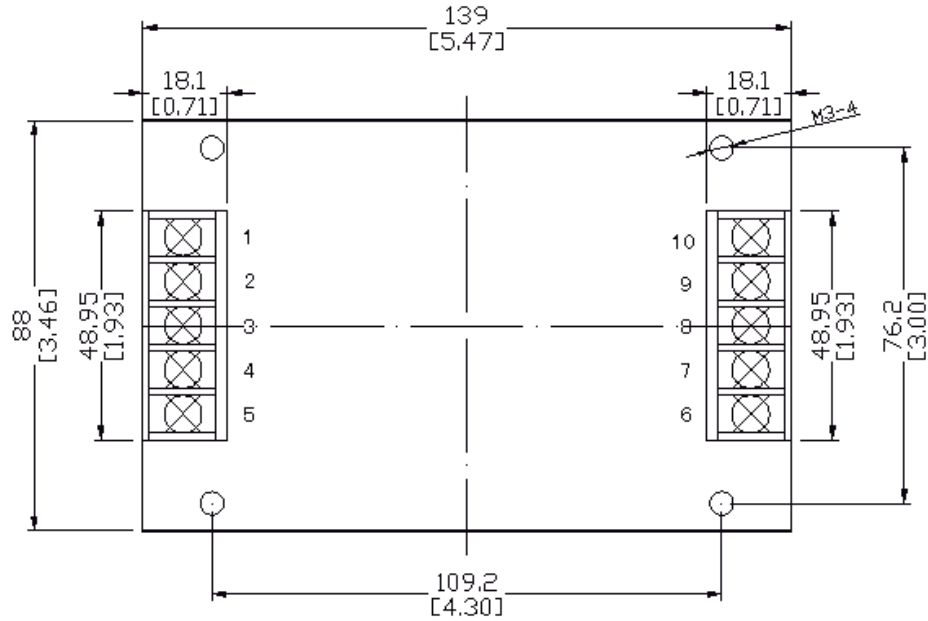
型号	输出功率 W	输入电压范围 VDC	输出纹波 mV	输出电压VDC		效率 %
				Vo1/Vo2	Io1/Io2	
HDK200A-48S12			100	12	16.7	83
HDK200A-48S15			120	15	13.3	84
HDK200A-48S24			200	24	8.3	84
HDK300A-48S12	300	36-72	100	12	25.0	83
HDK300A-48S15			120	15	20.0	84
HDK300A-48S24			200	24	12.5	84
HDK300A-48S48			300	48	6.25	85
HDK500A-48S12	500	36-72	100	12	41.67	83
HDK500A-48S15			120	15	33.3	84
HDK500A-48S24			200	24	20.83	84
HDK500A-48S48			300	48	10.42	85
HDK150A-48D03V05	150	36-72	50/50	3.3/5	15/20	82
HDK150A-48D12V03			100/50	12/3.3	8.3/15	82
HDK300A-48D05V12	300	36-72	50/100	5/12	20/16.67	83
HDK300A-48D05V15			50/120	5/15	20/13.3	84
HDK300A-48D05V24			50/200	5/24	20/8.33	84
HDK300A-48D05V48			50/300	5/48	20/4.17	85
HDK300A-48D12V12	300	36-72	100/100	12/12	8.33/16.67	83
HDK300A-48D12V15			100/120	12/15	8.33/13.3	84
HDK300A-48D12V24			100/200	12/24	8.33/8.33	84
HDK300A-48D12V48			100/300	12/48	8.33/4.17	85
HDK300A-48D24V12	300	36-72	200/100	24/12	4.17/16.67	83
HDK300A-48D24V15			200/120	24/15	4.17/13.3	84
HDK300A-48D24V24			200/200	24/24	4.17/8.33	84
HDK300A-48D24V48			200/300	24/48	4.17/4.17	85
HDK300A-48D48V12	300	36-72	300/100	48/12	2.08/16.67	83
HDK300A-48D48V15			300/120	48/15	2.08/13.3	84
HDK300A-48D48V24			300/200	48/24	2.08/8.33	84
HDK300A-48D48V48			300/300	48/48	2.08/4.17	85
HDK150A-110S05	150	70-150	50	5	30.0	82
HDK150A-110S12			100	12	12.5	83
HDK150A-110S15			120	15	10.0	84
HDK150A-110S24			200	24	6.25	85
HDK200A-110S05	200	70-150	50	5	40.0	82
HDK200A-110S12			100	12	16.7	83
HDK200A-110S15			120	15	13.3	84
HDK200A-110S24			200	24	8.3	85
HDK150A-110D03V05	150	9-18	50/50	3.3/5	15/20	83
HDK150A-110D12V03			120/50	12/3.3	8.3/15	84

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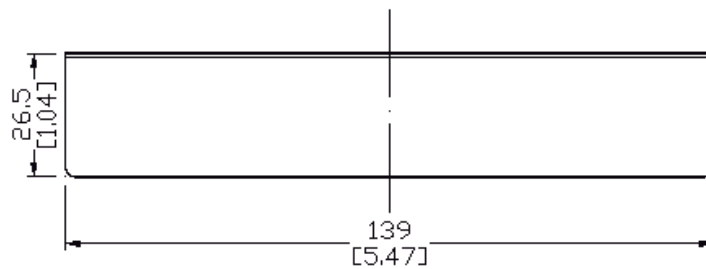
型号	输出功率 W	输入电压范围 VDC	输出纹波 mV	输出电压VDC		效率 %
				Vo1/Vo2	Io1/Io2	
HDK300A-110S12	300	70-150	100	12	25.0	83
HDK300A-110S15			120	15	20.0	84
HDK300A-110S24			200	24	12.5	85
HDK300A-110S48			300	48	6.25	86
HDK500A-110S12	500	70-150	100	12	41.67	83
HDK500A-110S15			120	15	33.3	84
HDK500A-110S24			200	24	20.83	85
HDK500A-110S48			300	48	10.42	86
HDK150A-110D03V05	150	70-150	50/50	3.3/5	15/20	82
HDK150A-110D12V03			100/50	12/3.3	8.3/15	82
HDK300A-110D05V12	300	70-150	50/100	5/12	20/16.67	83
HDK300A-110D05V15			50/120	5/15	20/13.3	84
HDK300A-110D05V24			50/200	5/24	20/8.33	85
HDK300A-110D05V48			50/300	5/48	20/4.17	86
HDK300A-110D12V12	300	70-150	100/100	12/12	8.33/16.67	83
HDK300A-110D12V15			100/120	12/15	8.33/13.3	84
HDK300A-110D12V24			100/200	12/24	8.33/8.33	85
HDK300A-110D12V48			100/300	12/48	8.33/4.17	86
HDK300A-110D24V12	300	70-150	200/100	24/12	4.17/16.67	83
HDK300A-110D24V15			200/120	24/15	4.17/13.3	84
HDK300A-110D24V24			200/200	24/24	4.17/8.33	85
HDK300A-24D24V48			200/300	24/48	4.17/4.17	86
HDK300A-110D48V12	300	70-150	300/100	48/12	2.08/16.67	83
HDK300A-110D48V15			300/120	48/15	2.08/13.3	84
HDK300A-110D48V24			300/200	48/24	2.08/8.33	85
HDK300A-110D48V48			300/300	48/48	2.08/4.17	86
HDK200A-18S05	200	9-36	50	5	40.0	80
HDK200A-18S12			100	12	16.7	81
HDK200A-18S15			120	15	13.3	82
HDK200A-18S24			200	24	8.3	83
HDK150A-18D03V05	150	9-36	50/50	3.3/5	15/20	80
HDK150A-18D12V03			100/50	12/3.3	8.3/15	80
HDK200A-36S05	200	18-72	50	5	40.0	81
HDK200A-36S12			100	12	16.7	82
HDK200A-36S15			120	15	13.3	83
HDK200A-36S24			200	24	8.3	84
HDK150A-36D03V05	150	18-72	50/50	3.3/5	15/20	81
HDK150A-36D12V03			100/50	12/3.3	8.3/15	81

注：由于篇幅有限，只列出常规产品，欲咨询定制产品，请致电公司销售人员。

HDKA系列外型尺寸图 (mm[inch])



底视图



侧视图

HDKA系列引脚定义

引脚	单路		双路	
	定义	说明	定义	说明
1	-Vin	输入负	-Vin	输入负
2	-Vin		-Vin	
3	+Vin	输入正	+Vin	输入正
4	+Vin		+Vin	
5	CTL	输入遥控端	CTL	输入遥控端
6	TRM	输出调整端	TRM	输出调整端
7	+Vo	输出正	+Vo1	一路输出正
8	+Vo		-Vo1	一路输出负
9	-Vo	输出负	+Vo2	二路输出正
10	-Vo		-Vo2	二路输出负