HRA 系列(6-30W)隔离宽电压输入正负高电压双输出稳压 DC/DC 模块电源

产品特点

- 输入、输出隔离型
- 效率高达 80%以上
- 1*2英寸标准封装25.4*50.8*12.5MM
- 正负高电压输出,精度2.0%MAX
- 隔离电压1000VDC
- •输入可控型,输出可增加调节功能

- 稳压输出,功率6-30W超宽范围
- 工作温度: -40℃~+85℃
- 金属屏蔽封装, 散热性能好
- 温度特性好,工业级温度标准
- 可直接焊在PCB 上

产品应用

HRA 6~30W 系列模块电源是一种 DC-DC 升压正负双输出高压电源模块。该模块电源的输入电压分为: 4.5~9V、9~18V、及 18~36VDC 标准(2: 1)宽输入电压范围(宽电压输入模块电源是指输入电压可以允许在很宽的范围内变化)。输出正负电压: ±30V、±40V、±50V、±60V、±70V、±80V、±85V、±90V、±100V、±110V、±120V、±130V、±150V、±160V、±180V、±200VDC、±220VDC、±230VDC、±240VDC、±250VDC等,具有功率密度大,输出功率高,应用范围广等优点。

技术参数

输出特性		
技术指标		测试条件
稳压精度	2.0 %max	0%~100%负载范围
	5% max	负端输出
电压调整率	0.5%max	满载
负载调整率	+/-0.5% type.	0%~100%负载范围
	+/-1% max. (No load to full load)	
纹波和噪声 (滤波后测试)	≤300mV p-p, max	20MHz 带宽
动态响应速度	≤150us	25%负载~满载
启动延迟时间	500ms	•
输入特性		
	(5VDC) 4.5—9.0VDC	
输入电压范围	(12VDC) 9.0—18VDC	
	(24VDC) 18—36VDC	
线性高速率	0.5%	低端 ~ 高端
一般特性		
开关频率	150KHz	典型值
转换效率	参见型号选择表	
隔离电压	1000VDC	输入和输出之间
平均无故障间隔时间	1000000 小时	
温度系数	0.02%/℃	

power family 电话: 0755-88826229 www.dspdf.com 第 1 页 共 5 页

环境特性	
工作温度范围	-40℃~+85℃
储存湿度	-55℃~+125℃
相对湿度	10%~90%
冷却方式	自由空气

产品型号选择指南

产品型号	标称值	输入电压 (VDC) 输入范围	输出电压 (VDC)	输出电流 (mA)	效率 (%)
HRA12110D-6W	12 .0	9.0~18.0	±110	28	76
HRA12150D-6W	12 .0	9.0~18.0	±150	20	78
HRA12250D-6W	12 .0	9.0~18.0	±250	13	80
HRA24110D-6W	24 .0	18.0~36.0	±110	28	78
HRA24150D-6W	24 .0	18.0~36.0	±150	20	79
HRA24250D-6W	24 .0	18.0~36.0	±250	13	81
HRA12100D-8W	12 .0	9.0~18.0	±100	40	78
HRA12150D-8W	12 .0	9.0~18.0	±150	25	80
HRA12250D-8W	12 .0	9.0~18.0	±250	15	82
HRA24100D-8W	24 .0	18.0~36.0	±100	40	79
HRA24150D-8W	24 .0	18.0~36.0	±150	25	81
HRA24250D-8W	24 .0	18.0~36.0	±250	15	83
HRA12100D-10W	12 .0	9.0~18.0	±100	50	80
HRA12150D-10W	12 .0	9.0~18.0	±150	33	82
HRA12250D-10W	12 .0	9.0~18.0	±250	20	85
HRA24100D-10W	24 .0	18.0~36.0	±100	50	82
HRA24150D-10W	24 .0	18.0~36.0	±150	33	83
HRA24250D-10W	24 .0	18.0~36.0	±250	20	85
HRA1240D-10W	12 .0	9.0~18.0	±40	125	82
HRA1250D-10W	12 .0	9.0~18.0	±50 100		84
HRA1260D-10W	12 .0	9.0~18.0	±60	83	85

HRA1270D-10W 12.0 9.0~18.0 ±70 71 86 HRA1280D-10W 12.0 9.0~18.0 ±80 62 84 HRA1290D-10W 12.0 9.0~18.0 ±90 55 83 HRA12110D-10W 12.0 9.0~18.0 ±110 45 85 HRA12120D-10W 12.0 9.0~18.0 ±160 31 86 HRA12160D-10W 12.0 9.0~18.0 ±160 31 86 HRA12180D-10W 12.0 9.0~18.0 ±200 25 84 HRA1220D-10W 12.0 9.0~18.0 ±200 25 84 HRA12220D-10W 12.0 9.0~18.0 ±210 23 82 HRA12220D-10W 12.0 9.0~18.0 ±220 22 85 HRA12220D-10W 12.0 9.0~18.0 ±240 20 84 HRA12220D-10W 12.0 9.0~18.0 ±240 20 84 HRA24230D-15W 24.0 18.0~36.0 ±100 75		power supply					
HRA1290D-10W 12.0 9.0~18.0 ±90 55 83 HRA12110D-10W 12.0 9.0~18.0 ±110 45 85 HRA12120D-10W 12.0 9.0~18.0 ±120 41 82 HRA12160D-10W 12.0 9.0~18.0 ±160 31 86 HRA12180D-10W 12.0 9.0~18.0 ±180 28 82 HRA12200D-10W 12.0 9.0~18.0 ±200 25 84 HRA12210D-10W 12.0 9.0~18.0 ±210 23 82 HRA12230D-10W 12.0 9.0~18.0 ±220 22 85 HRA24100D-15W 24.0 18.0~36.0 ±100 75 85 HRA24150D-15W 24.0 18.0~36.0 ±150 50	HRA1270D-10W	12 .0	9.0~18.0	±70	71	86	
HRA12110D-10W 12.0 9.0~18.0 ±110 45 85 HRA12120D-10W 12.0 9.0~18.0 ±120 41 82 HRA12160D-10W 12.0 9.0~18.0 ±160 31 86 HRA12180D-10W 12.0 9.0~18.0 ±180 28 82 HRA1220D-10W 12.0 9.0~18.0 ±200 25 84 HRA12210D-10W 12.0 9.0~18.0 ±200 25 84 HRA12210D-10W 12.0 9.0~18.0 ±200 25 85 HRA12220D-10W 12.0 9.0~18.0 ±220 22 85 HRA12230D-10W 12.0 9.0~18.0 ±220 20 84 HRA12230D-10W 12.0 9.0~18.0 ±220 21 86 HRA12240D-10W 12.0 9.0~18.0 ±230 21 86 HRA24240D-10W 12.0 9.0~18.0 ±240 20 84 HRA24100D-15W 24.0 18.0~36.0 ±100 75 85 HRA24120D-15W 24.0 18.0~36.0 ±120 62 88 HRA24180D-15W 24.0 18.0~36.0 ±120 62 88 HRA24180D-15W 24.0 18.0~36.0 ±180 41 85 HRA24110D-15W 24.0 18.0~36.0 ±100 37 83 HRA24110D-15W 24.0 18.0~36.0 ±100 68 87 HRA2420D-15W 24.0 18.0~36.0 ±200 37 83 HRA24110D-15W 24.0 18.0~36.0 ±200 37 83 HRA2410D-15W 24.0 18.0~36.0 ±200 34 86 HRA2420D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±250 30 82 HRA2460D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±50 125 84 HRA2450D-20W 24.0 18.0~36.0 ±60 166 84 HRA2450D-20W 24.0 18.0~36.0 ±80 115 84 HRA2460D-20W 24.0 18.0~36.0 ±80 111 84 HRA24150D-20W 24.0 18.0~36.0 ±100 1100 83 HRA24150D-20W 24.0 18.0~36.0 ±100 1100 83 HRA24150D-20W 24.0 18.0~36.0 ±100 1100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA1280D-10W	12 .0	9.0~18.0	±80	62	84	
HRA12120D-10W 12.0 9.0~18.0 ±120 41 82 HRA12160D-10W 12.0 9.0~18.0 ±160 31 86 HRA12180D-10W 12.0 9.0~18.0 ±180 28 82 HRA1220D-10W 12.0 9.0~18.0 ±200 25 84 HRA12210D-10W 12.0 9.0~18.0 ±210 23 82 HRA12220D-10W 12.0 9.0~18.0 ±220 22 85 HRA12230D-10W 12.0 9.0~18.0 ±220 22 85 HRA12230D-10W 12.0 9.0~18.0 ±230 21 86 HRA12230D-10W 12.0 9.0~18.0 ±240 20 84 HRA12240D-10W 12.0 9.0~18.0 ±240 20 84 HRA2410D-15W 24.0 18.0~36.0 ±100 75 85 HRA24120D-15W 24.0 18.0~36.0 ±100 75 85 HRA24150D-15W 24.0 18.0~36.0 ±150 50 84 HRA24180D-15W 24.0 18.0~36.0 ±180 41 85 HRA2420D-15W 24.0 18.0~36.0 ±180 41 85 HRA2420D-15W 24.0 18.0~36.0 ±200 37 83 HRA24110D-15W 24.0 18.0~36.0 ±200 37 83 HRA2420D-15W 24.0 18.0~36.0 ±200 37 83 HRA2420D-15W 24.0 18.0~36.0 ±200 37 83 HRA2420D-15W 24.0 18.0~36.0 ±200 37 83 HRA24250D-15W 24.0 18.0~36.0 ±200 37 83 HRA24250D-15W 24.0 18.0~36.0 ±200 34 86 HRA24250D-15W 24.0 18.0~36.0 ±200 34 86 HRA24250D-20W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2450D-20W 24.0 18.0~36.0 ±50 166 84 HRA2450D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2480D-20W 24.0 18.0~36.0 ±85 117 85 HRA2480D-20W 24.0 18.0~36.0 ±80 115 84 HRA2480D-20W 24.0 18.0~36.0 ±80 111 84 HRA24150D-20W 24.0 18.0~36.0 ±90 111 84 HRA24150D-20W 24.0 18.0~36.0 ±90 111 84 HRA24150D-20W 24.0 18.0~36.0 ±100 100 83	HRA1290D-10W	12 .0	9.0~18.0	±90	55	83	
HRA12160D-10W 12 .0 9.0~18.0 ±160 31 86 HRA12180D-10W 12 .0 9.0~18.0 ±180 28 82 HRA1220D-10W 12 .0 9.0~18.0 ±200 25 84 HRA12210D-10W 12 .0 9.0~18.0 ±210 23 82 HRA12220D-10W 12 .0 9.0~18.0 ±220 22 85 HRA12230D-10W 12 .0 9.0~18.0 ±220 21 86 HRA12230D-10W 12 .0 9.0~18.0 ±230 21 86 HRA12240D-10W 12 .0 9.0~18.0 ±240 20 84 HRA24100D-15W 24.0 18.0~36.0 ±100 75 85 HRA24120D-15W 24.0 18.0~36.0 ±150 50 84 HRA24150D-15W 24.0 18.0~36.0 ±150 50 84 HRA24180D-15W 24.0 18.0~36.0 ±150 50 84 HRA2410D-15W 24.0 18.0~36.0 ±100 37 83 HRA24120D-15W 24.0 18.0~36.0 ±200 37 83 HRA2420D-15W 24.0 18.0~36.0 ±200 36 HRA2420D-15W 24.0 18.0~36.0 ±200 37 83 HRA2420D-15W 24.0 18.0~36.0 ±200 36 HRA2420D-15W 24.0 18.0~36.0 ±200 36 HRA2420D-15W 24.0 18.0~36.0 ±250 30 82 HRA24250D-15W 24.0 18.0~36.0 ±50 200 85 HRA24450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±60 166 84 HRA2480D-20W 24.0 18.0~36.0 ±60 110 100 83 HRA24150D-20W 24.0 18.0~36.0 ±90 111 84 HRA24150D-20W 24.0 18.0~36.0 ±90 111 84 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA12110D-10W	12 .0	9.0~18.0	±110	45	85	
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HRA12210D-10W 12.0 9.0~18.0 ±210 23 82 HRA12220D-10W 12.0 9.0~18.0 ±220 22 85 HRA12230D-10W 12.0 9.0~18.0 ±230 21 86 HRA12240D-10W 12.0 9.0~18.0 ±240 20 84 HRA24100D-15W 24.0 18.0~36.0 ±100 75 85 HRA24120D-15W 24.0 18.0~36.0 ±120 62 88 HRA24150D-15W 24.0 18.0~36.0 ±150 50 84 HRA24180D-15W 24.0 18.0~36.0 ±180 41 85 HRA24180D-15W 24.0 18.0~36.0 ±200 37 83 HRA2420D-15W 24.0 18.0~36.0 ±200 37 83 HRA24110D-15W 24.0 18.0~36.0 ±200 37 83 HRA2420D-15W 24.0 18.0~36.0 ±200 37 83 HRA2420D-15W 24.0 18.0~36.0 ±200 37 83 HRA2420D-15W 24.0 18.0~36.0 ±200 36 HRA24250D-15W 24.0 18.0~36.0 ±200 36 HRA24250D-15W 24.0 18.0~36.0 ±200 36 HRA24250D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±80 125 84 HRA2480D-20W 24.0 18.0~36.0 ±90 111 84 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24150D-20W 24.0 18.0~36.0 ±90 111 84 HRA24150D-20W 24.0 18.0~36.0 ±90 111 84 HRA2410D-20W 24.0 18.0~36.0 ±90 111 84	HRA12180D-10W	12 .0	9.0~18.0	±180	28	82	
HRA12220D-10W 12.0 9.0~18.0 ±220 22 85 HRA12230D-10W 12.0 9.0~18.0 ±230 21 86 HRA12240D-10W 12.0 9.0~18.0 ±240 20 84 HRA24100D-15W 24.0 18.0~36.0 ±100 75 85 HRA24120D-15W 24.0 18.0~36.0 ±120 62 88 HRA24150D-15W 24.0 18.0~36.0 ±150 50 84 HRA24180D-15W 24.0 18.0~36.0 ±180 41 85 HRA24180D-15W 24.0 18.0~36.0 ±100 37 83 HRA24110D-15W 24.0 18.0~36.0 ±200 37 83 HRA24110D-15W 24.0 18.0~36.0 ±110 68 87 HRA24220D-15W 24.0 18.0~36.0 ±200 36 HRA24250D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±80 125 84 HRA2480D-20W 24.0 18.0~36.0 ±90 111 84 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA2410D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±100 100 83	HRA12200D-10W	12 .0	9.0~18.0	±200	25	84	
HRA12230D-10W 12 .0 9.0~18.0 ±230 21 86 HRA12240D-10W 12 .0 9.0~18.0 ±240 20 84 HRA24100D-15W 24.0 18.0~36.0 ±100 75 85 HRA24120D-15W 24.0 18.0~36.0 ±120 62 88 HRA24150D-15W 24.0 18.0~36.0 ±150 50 84 HRA24180D-15W 24.0 18.0~36.0 ±180 41 85 HRA24180D-15W 24.0 18.0~36.0 ±200 37 83 HRA24200D-15W 24.0 18.0~36.0 ±200 37 83 HRA2420D-15W 24.0 18.0~36.0 ±220 34 86 HRA24250D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±70 142 85 HRA2485D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±90 111 84 HRA2490D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±100 100 83	HRA12210D-10W	12 .0	9.0~18.0	±210	23	82	
HRA12240D-10W 12.0 9.0~18.0 ±240 20 84 HRA2410D-15W 24.0 18.0~36.0 ±100 75 85 HRA24120D-15W 24.0 18.0~36.0 ±120 62 88 HRA24150D-15W 24.0 18.0~36.0 ±150 50 84 HRA24180D-15W 24.0 18.0~36.0 ±180 41 85 HRA2420D-15W 24.0 18.0~36.0 ±200 37 83 HRA24110D-15W 24.0 18.0~36.0 ±110 68 87 HRA24220D-15W 24.0 18.0~36.0 ±220 34 86 HRA24250D-15W 24.0 18.0~36.0 ±220 34 86 HRA24250D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2450D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2480D-20W 24.0 18.0~36.0 ±85 117 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±100 100 83	HRA12220D-10W	12 .0	9.0~18.0	±220	22	85	
HRA24100D-15W 24.0 18.0~36.0 ±100 75 85 HRA24120D-15W 24.0 18.0~36.0 ±120 62 88 HRA24150D-15W 24.0 18.0~36.0 ±150 50 84 HRA24180D-15W 24.0 18.0~36.0 ±180 41 85 HRA24200D-15W 24.0 18.0~36.0 ±200 37 83 HRA24110D-15W 24.0 18.0~36.0 ±110 68 87 HRA24220D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100	HRA12230D-10W	12 .0	9.0~18.0	±230	21	86	
HRA24120D-15W 24.0 18.0~36.0 ±120 62 88 HRA24150D-15W 24.0 18.0~36.0 ±150 50 84 HRA24180D-15W 24.0 18.0~36.0 ±180 41 85 HRA24200D-15W 24.0 18.0~36.0 ±200 37 83 HRA24110D-15W 24.0 18.0~36.0 ±110 68 87 HRA24220D-15W 24.0 18.0~36.0 ±220 34 86 HRA24250D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA12240D-10W	12 .0	9.0~18.0	±240	20	84	
HRA24150D-15W 24.0 18.0~36.0 ±150 50 84 HRA24180D-15W 24.0 18.0~36.0 ±180 41 85 HRA24200D-15W 24.0 18.0~36.0 ±200 37 83 HRA24110D-15W 24.0 18.0~36.0 ±110 68 87 HRA24220D-15W 24.0 18.0~36.0 ±220 34 86 HRA24250D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24150D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA24100D-15W	24.0	18.0~36.0	±100	75	85	
HRA24180D-15W 24.0 18.0~36.0 ±180 41 85 HRA24200D-15W 24.0 18.0~36.0 ±200 37 83 HRA24110D-15W 24.0 18.0~36.0 ±110 68 87 HRA24220D-15W 24.0 18.0~36.0 ±220 34 86 HRA24250D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA24120D-15W	24.0	18.0~36.0	±120	62	88	
HRA24200D-15W 24.0 18.0~36.0 ±200 37 83 HRA24110D-15W 24.0 18.0~36.0 ±110 68 87 HRA24220D-15W 24.0 18.0~36.0 ±220 34 86 HRA24250D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA24150D-15W	24.0	18.0~36.0	±150	50	84	
HRA24110D-15W 24.0 18.0~36.0 ±110 68 87 HRA24220D-15W 24.0 18.0~36.0 ±220 34 86 HRA24250D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA24180D-15W	24.0	18.0~36.0	±180	41	85	
HRA24220D-15W 24.0 18.0~36.0 ±220 34 86 HRA24250D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA24200D-15W	24.0	18.0~36.0	±200	37	83	
HRA24250D-15W 24.0 18.0~36.0 ±250 30 82 HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA24110D-15W	24.0	18.0~36.0	±110	68	87	
HRA2450D-20W 24.0 18.0~36.0 ±50 200 85 HRA2460D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA24220D-15W	24.0	18.0~36.0	±220	34	86	
HRA2460D-20W 24.0 18.0~36.0 ±60 166 84 HRA2470D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA24250D-15W	24.0	18.0~36.0	±250	30	82	
HRA2470D-20W 24.0 18.0~36.0 ±70 142 85 HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA2450D-20W	24.0	18.0~36.0	±50	200	85	
HRA2480D-20W 24.0 18.0~36.0 ±80 125 84 HRA2485D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA2460D-20W	24.0	18.0~36.0	±60	166	84	
HRA2485D-20W 24.0 18.0~36.0 ±85 117 85 HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA2470D-20W	24.0	18.0~36.0	±70	142	85	
HRA2490D-20W 24.0 18.0~36.0 ±90 111 84 HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA2480D-20W	24.0	18.0~36.0	±80	125	84	
HRA24100D-20W 24.0 18.0~36.0 ±100 100 83 HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA2485D-20W	24.0	18.0~36.0	±85	117	85	
HRA24150D-20W 24.0 18.0~36.0 ±150 66 82	HRA2490D-20W	24.0	18.0~36.0	±90	111	84	
	HRA24100D-20W	24.0	18.0~36.0	±100	100	83	
HRA24250D-20W 24.0 18.0~36.0 ±250 40 85	HRA24150D-20W	24.0	18.0~36.0	±150	66	82	
	HRA24250D-20W	24.0	18.0~36.0	±250	40	85	

HRA2460D-30W	24.0	18.0~36.0	±60	250	85
HRA2490D-30W	24.0	18.0~36.0	±90	166	84
HRA24150D-30W	24.0	18.0~36.0	±150	100	83
HRA24200D-30W	24.0	18.0~36.0	±200	75	82
HRA24250D-30W	24.0	18.0~36.0	±250	60	85

产品举例说明:

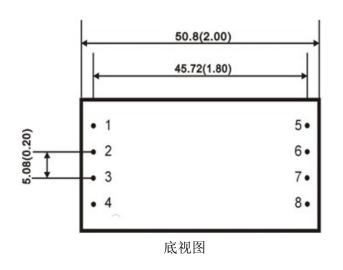
1、 型号: HRA12110D-10W 输入电压Vin: 9~18VDC; 输出电压Vout: ±110VDC; 输出功率: 10W

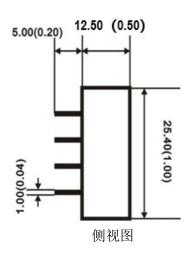
2、 型号: HRA24250D-20W

输入电压Vin: 18~36VDC;输出电压Vout: ±250VDC;输出功率: 20W

外型尺寸及引脚描述

HRA 6~30W 系列 产品尺寸: 50.8x25.4x12.5 单位: mm





PIN 脚	6W~10W 引脚功能说明				
1	+Vin	输入正	5	+Vout	输出正
2	GND	输入负	6	ADJ	调整端
3	REM	遥控端	7	СОМ	公共端
4	GND	输入负	8	-VOUT	输出负

企业生产研发的HRB、HRA、 GRB系列高压稳压模块电源广泛用于医疗超声仪器仪表、核检 测仪器仪表、高压电容充电、工业控制系统稳压电源、矿用仪器仪表设备、安防仪器仪表隔 离电源、电力系统控制等各种场合。

注意: HRB、HRA、GRB高压系列产品如果订货前没有特殊注明,产品默认出厂均不带输入遥控 端,和输出调整端,如需增加此功能请在订货前注明。产品型号举例只是目前市场客户使用 较多型号,如有特殊要求,特殊电压均可按要求订制开发,详情请联系公司销售客服。

备注:1、REM为遥控输入端,高电位有高压输出,低电位关断高压输出.

2、 ADJ调节端为输出电压调节端, 电阻越大输出电压越高, 因一端接在正输出电压, 调节时一定注 意安全。

我公司可以按客户要求去掉REM和ADJ脚功能。

产品应用图



备注: 1、1电位器为反馈电阻输入端,必须接或者短接,不需要调节可以要求去掉这个功能。

2、C1、C2为输出滤波电容,耐压要保证为输出电压的1.5倍。

保修:

本产品自售出之日起两年内, 凡用户遵守贮存、运输及使用要求, 而产品质量低于技术指标的, 可以 返厂免费维修。因违反操作规定和要求而造成损坏的,需交纳器件费用和维修费。

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