

AC-DC CONVERTER

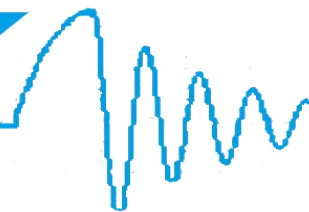
DA2KM214-220S48用户使用手册 V001.000

DA2KM214-220S48 User Manual V001.000



石家庄迪龙科技有限公司

Shijiazhuang DiLong Technology Co., LTD.



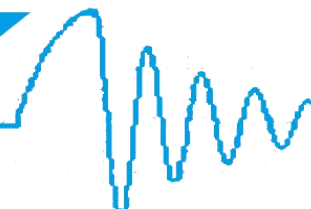
主要特点/Main features:

DA2KM214-220S48 我公司专门为医疗、电子设备设计制造的一款大功率AC/DC变换器。能够实现220V 50Hz市电输入，直流48V恒压输出，具有过压过温保护功能。

DA1KM214-220S48 is a high-power AC/DC converter specially designed and manufactured by our company for medical and electronic equipment with superior EMC performance .It can realize 220v-50Hz mains input,48V DC constant voltage ,and has the function of over-voltage and over-temperature protection.

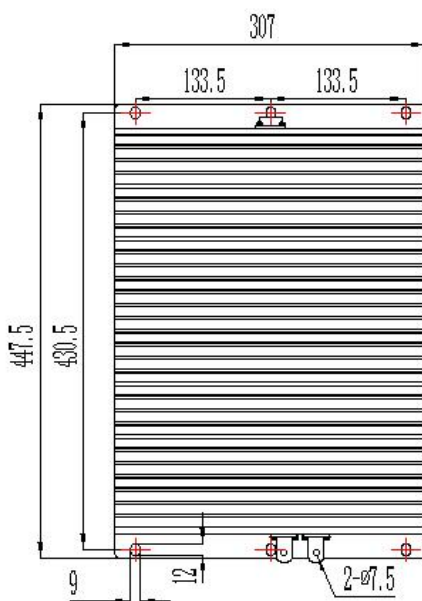
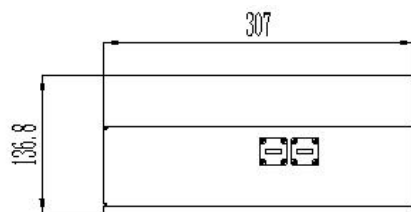
技术参数说明/Specification of technical parameters:

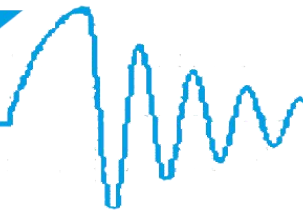
项 目/Item	指标/Index		备 注/Remark
额定输入电压 Rated Input Voltage	AC: 220V		
输入频率 Input Frequency	47~63Hz		
输入电压范围 Input Voltage Range	AC: 190V~265V		
功率因数 Power Factor	≥ 0.99		额定输入输出 Rated Input and output
输出额定值 Output Rating	DC: 48V/36A		
输出电压精度 Output Voltage Accuracy	$\leq \pm 1\%$		
源 效 应 Source Effect	$< \pm 0.2\%$		100% 负载 100% load
负 载 效 应 Load Effect	$< \pm 0.5\%$		额定输入10%-100%负载 Rated Input 100% load
输出过压保护 Output over Voltage Protect Point	70V $\pm$ 4V		仅恒压失效才发生，保护后输入断电方可恢复 Only constant voltage failure occurs, and the input power can be restored after the protection is broken
输出恒流点 Output Constant Current point	42A $\pm$ 2A		
静 态 功 耗 Static Power Consumption	$\leq 6W$		
纹 波 Vp-p Ripple Vp-p	$< 2\%V_o$		直测输出 Direct Measurement output
工 作 效 率 Working Efficiency	$\geq 90\%$		
工 作 频 率 Working Frequency	65~75KHz		
隔 离 耐 压 Isolated Withstand Voltage	Vin-Vout	1500V _{AC} /1min	漏电流 $\leq 10mA$



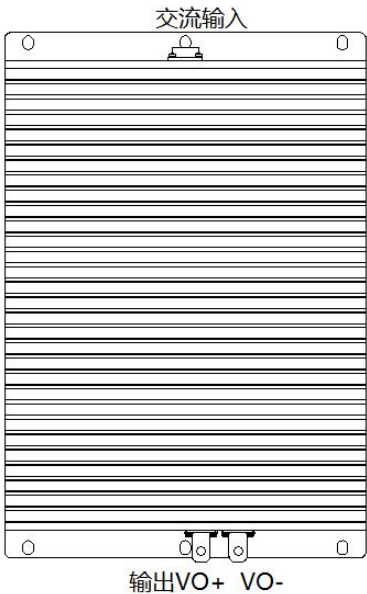
	Vin-FG	1000V _{AC} /1min	
	Vout-FG	500V _{DC} /1min	
绝缘电阻 Insulation Resistance	100MΩ		
开机过冲 Power-on Overshoot	≤±10%		
过温保护 Over-Temperature Protection	80±2℃		温度传感器测量点温度，降温自恢复 Temperature measurement by sensor, Cooling self-recovery
工作环境湿度 Working Ambient Humidity	20%~90%RH		
工作环境温度 Working Ambient Temperature	-30~50℃		
重量 Weight	≤16Kg		

外形尺寸/Boundary Dimension:





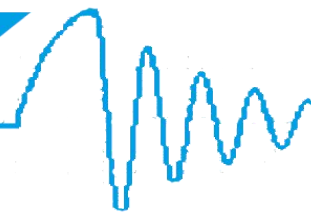
接线图/Wiring Diagram:



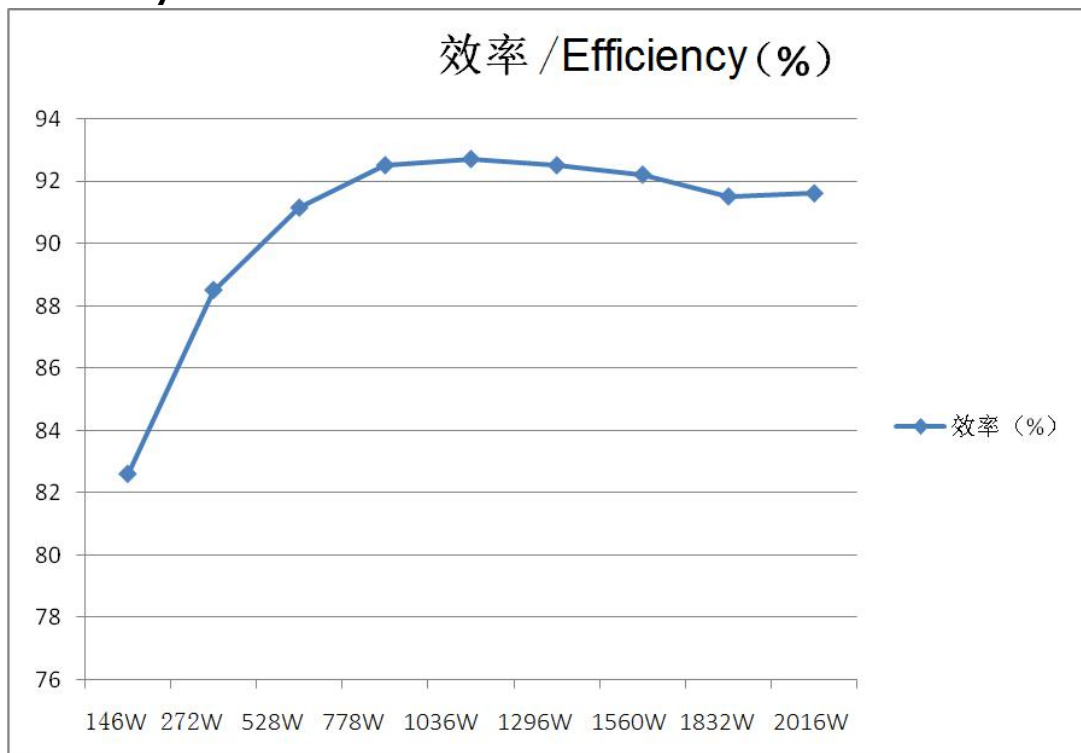
1、输入导线横截面积推荐大于2.5平方毫米铜线。输出导线横截面积推荐大于10平方毫米铜线。
The cross-sectional area of the input conductor is greater than 2.5mm², The cross-sectional area of the output conductor is recommended to be greater than 10 mm² copper wire.

端子定义/Terminal definition:

简图示 Illustration		
插件制造厂商 Connectors Manufacturer	澳普龙 Aopulo	/
产品端插件型号 Connector part NO. (Product end)	AY20J3Z	Vout输出端子 Vout Output Terminal
线束端插件型号 Connector part NO. (Harness end)	TY20K3T	/
产品端插件定义 Connector Definitions (Product)	1: L 2: N 3: FG	VO+ (低压输出正/LV output +) VO- (低压输出负/LV output -)



效率曲线/ Efficiency Curve:



使用与注意事项/Usage and precautions:

1、产品在运输过程中，不应受到剧烈机械撞击、暴晒、雨淋等。

The product in the transportation process ,should not be subjected to violent mechanical impact, exposure, rain and so on

2、使用操作前，应仔细阅读产品使用手册。

Before using the operation ,should carefully read the product manual.

3、使用操作前，检查产品是否完好。

Before using the operation ,check whether the product is in good condition

4、如对产品有疑问，请致电公司查询。

If you have any questions about the product ,please call the company.

5、未经授权，不可私拆产品。由于私拆造成的危险、损坏，本公司将不负责任。

Without authorization ,do not open the product .The company will not be responsible for any danger or damage caused by private dismantling.