

HVR620

数字电压调节器

DIGITAL VOLTAGE REGULATOR



● 简介

用于调节无刷交流同步发电机励磁机的励磁电流，可应用于永磁励磁发电机（PMG），辅助绕组励磁发电机（AUXW）和自励磁发电机（SHUNT）。产品的励磁调节模式为自动电压调节。

● 特点

- 励磁调节模式：自动电压调节(AVR)
- 软启动功能
- 过励限制、伏频（U/F）限制功能
- 三种电压调节方式：电位器、PC参数配置、CAN通信
- 加载补偿功能(LCF)
- 适用三相三线、三相四线、二相三线、单相二线，额定频率10-200Hz系统
- 可检测发电电压谐波THDu，1-15次谐波
- 发电电压测量为真有效值
- 散热片温度、绕组温度检测和报警保护功能
- 电压不平衡、波形失真、发电丢失、励磁过压、励磁过流、旋转二极管故障等保护检测功能
- PC软件可进行实时数据曲线分析，用于调整PID参数
- 通过CAN通讯接口可进行数据监控
- 历史记录功能，根据运行时间循环记录999条事件
- 黑匣子功能，可循环记录5组故障报警数据

Overview

Used to adjust the field current of brushless AC synchronous generator, which can be applied to generators with the excitation system of PMG, AUXW or SHUNT. The excitation regulation mode of the regulator is automatic voltage regulation (AVR).

Features

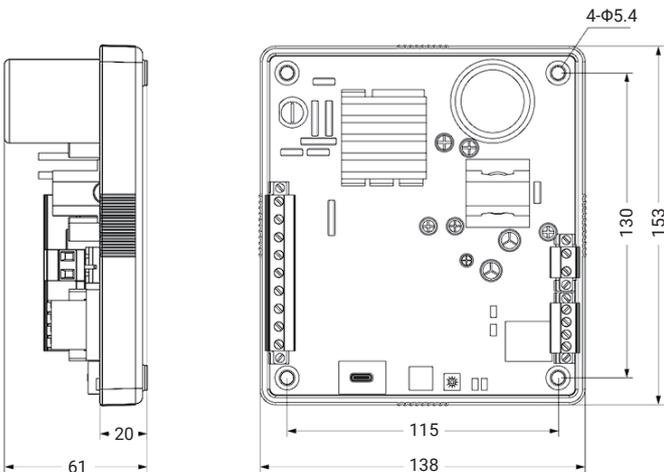
- Excitation regulation mode: automatic voltage regulation (AVR)
- Over-excitation limit, U/F limit function is fitted
- Soft start function is fitted
- Three ways to adjust voltage: potentiometer, parameters configuration on PC, CAN communication
- With load compensation function (LCF)
- Suitable for AC systems of 3P3W, 3P4W, 2P3W and 1P2W at rate frequency between 10Hz and 200Hz
- Detect generator voltage harmonic THDu, and 1st-15th odd harmonic
- The measured generator voltage represents a true RMS value
- Protection and detection function: gen. over/under voltage, gen. over/under frequency, gen. unbalanced voltage, gen. harmonic distortion, gen. unavailable, excitation over voltage, excitation overcurrent, rotating diode fault, etc.
- Real-time data curve analysis can be done to adjust PID parameters via PC software
- Data monitoring can be realized via the CAN communication interface
- Event log function can cyclically record 999 events based on the running time
- Black box function enables it to record 5 groups of fault alarm data cyclically



<p>励磁电源 Excitation Power</p>	<p>DC63V励磁系统: AC(100-139)V或DC125V</p> <p>DC125V励磁系统: AC(190-277)V或DC250V</p> <p>频率: (50-500)Hz或DC</p>	<p>DC63V system: AC(100-139)V or DC125V</p> <p>DC125V system: AC(190-277)V or DC250V</p> <p>Frequency: (50-500)Hz or DC</p>
<p>励磁输出电流 Excitation Current</p>	<p>连续电流: 70VDC 4A</p> <p>短时最大电流: 10s 45VDC 7.5A</p> <p>线圈电阻 > 4Ω</p>	<p>Continuous current: 70VDC 4A</p> <p>Maximum short-time current: 10s 45VDC 7.5A</p> <p>Coil resistance > 4Ω</p>
<p>交流采样 AC Sampling</p>	<p>交流电压 范围: AC30V-AC720V (ph-ph) 分辨率: 0.1V, 精度: 0.2%</p> <p>交流频率 范围: 10-200Hz, 分辨率: 0.01Hz, 精度: 0.1Hz</p>	<p>AC Voltage Range: AC30V-AC720V (ph-ph) Resolution: 0.1V, Accuracy: 0.2%</p> <p>AC frequency Range: 10-200Hz, Resolution: 0.01Hz, Accuracy: 0.1Hz</p>
<p>环境 Environment</p>	<p>工作温度: (-40~+70)°C</p> <p>工作湿度: (20~95)% RH</p> <p>贮存温度: (-40~+85)°C</p> <p>防护等级: IP20</p>	<p>Working Temperature: (-40~+70)°C</p> <p>Working Humidity: (20~95)% RH</p> <p>Storage Temperature: (-40~+85)°C</p> <p>IP Rating: IP20</p>
<p>标准 Standard</p>	<p>振动: 18-2000Hz: 5g IEC 60068-2-6</p> <p>冲击: 50g_n, 11ms, 半正弦, 三个互相垂直方向的每一方向连续施加三次冲击, 即共18次 IEC 60068-2-27</p> <p>碰撞: 20g_n/16ms, 半正弦 IEC 60255-21-2</p>	<p>Vibration: (18-2000)Hz: 5g IEC 60068-2-6</p> <p>Shock: 50g_n, 11ms, half-sine, apply three shocks successively in each direction of three mutually perpendicular axes, which means 18 shocks in total IEC 60068-2-27</p> <p>Bump: 20g_n/16ms, half-sine IEC 60255-21-2</p>

● 尺寸 Dimensions

单位(Unit): mm



● 端口 Ports

<p>励磁输出 Excitation Output</p>				<p>绕组温度输入 Winding Temperature Input</p>
<p>励磁电源 Excitation Power</p>				<p>CAN USB</p>
<p>电压采样 Voltage Sampling</p>	<p>USB</p>	<p>旋钮开关 Rotary DIP Switch</p>	<p>电压调节电位器 Potentiometer</p>	

