

禾川 E600 系列多点 VF 功能使用教程

浙江禾川科技股份有限公司

Product Function Instruction

产 品 类 型	变频器	产 品 型 号	HDv-E600-4T3.7B-000	保密等级	☒ 公开 ☐ 内部分享 ☐ 保密
				文档编号	
修订		作者	董建宁	发布日期	
本文档使用硬件设备和软件工具			部门：工业传动产品线		
● 禾川 HDv-E600-4T3.7B-000					
适用版本					
无限制					
文档更新和发布状态：					
发布日期		版本	更新内容	发布状态	
		标准机	E600 变频器使用手册	未发布	
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1. Hardware version

1.1 Hard ware

VFD: HDv-E600-4T3.7B-000 Version: standard version

IM : 3 phase、380v、0.06KW、IPCS (Induction motor-TECO)

2. VF Function Parameter Settings

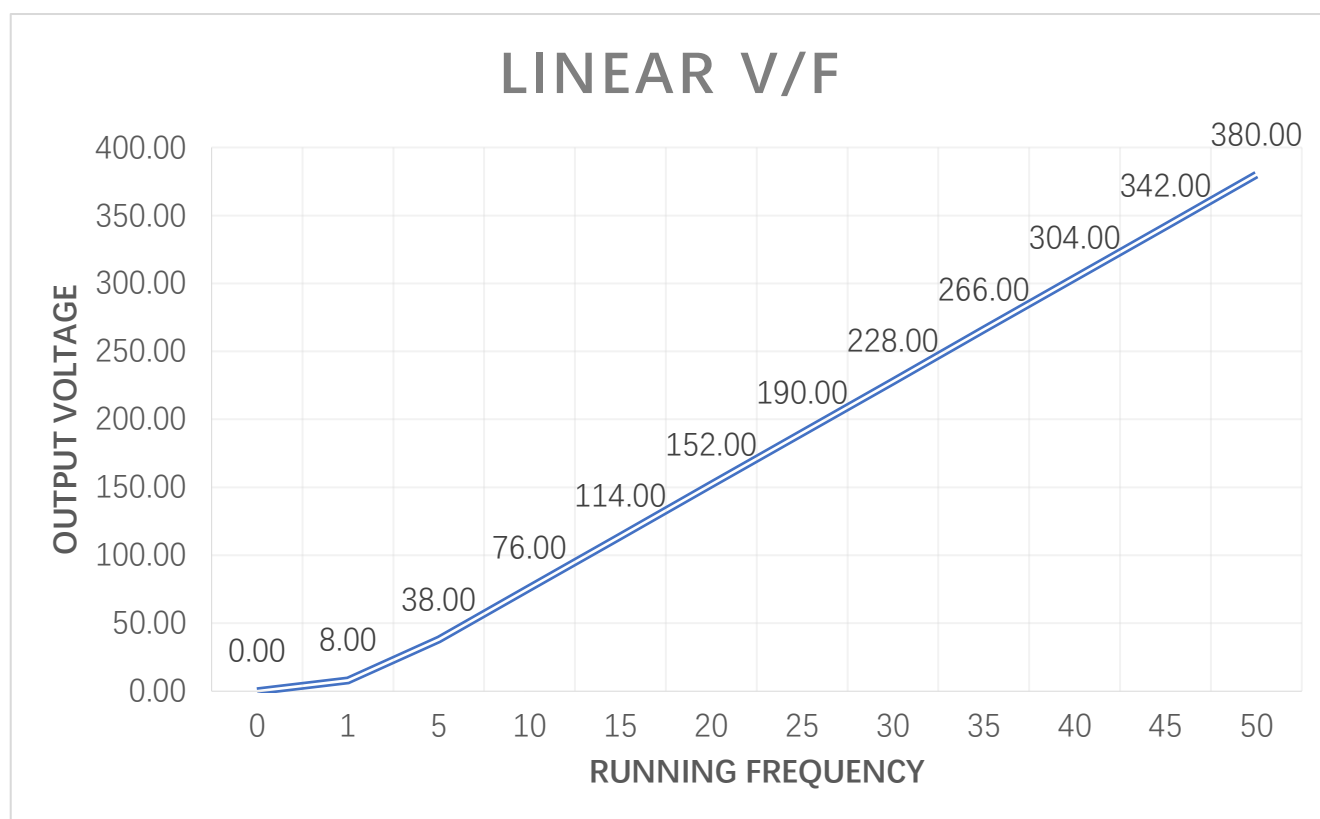
2.1 VF Curve Settings

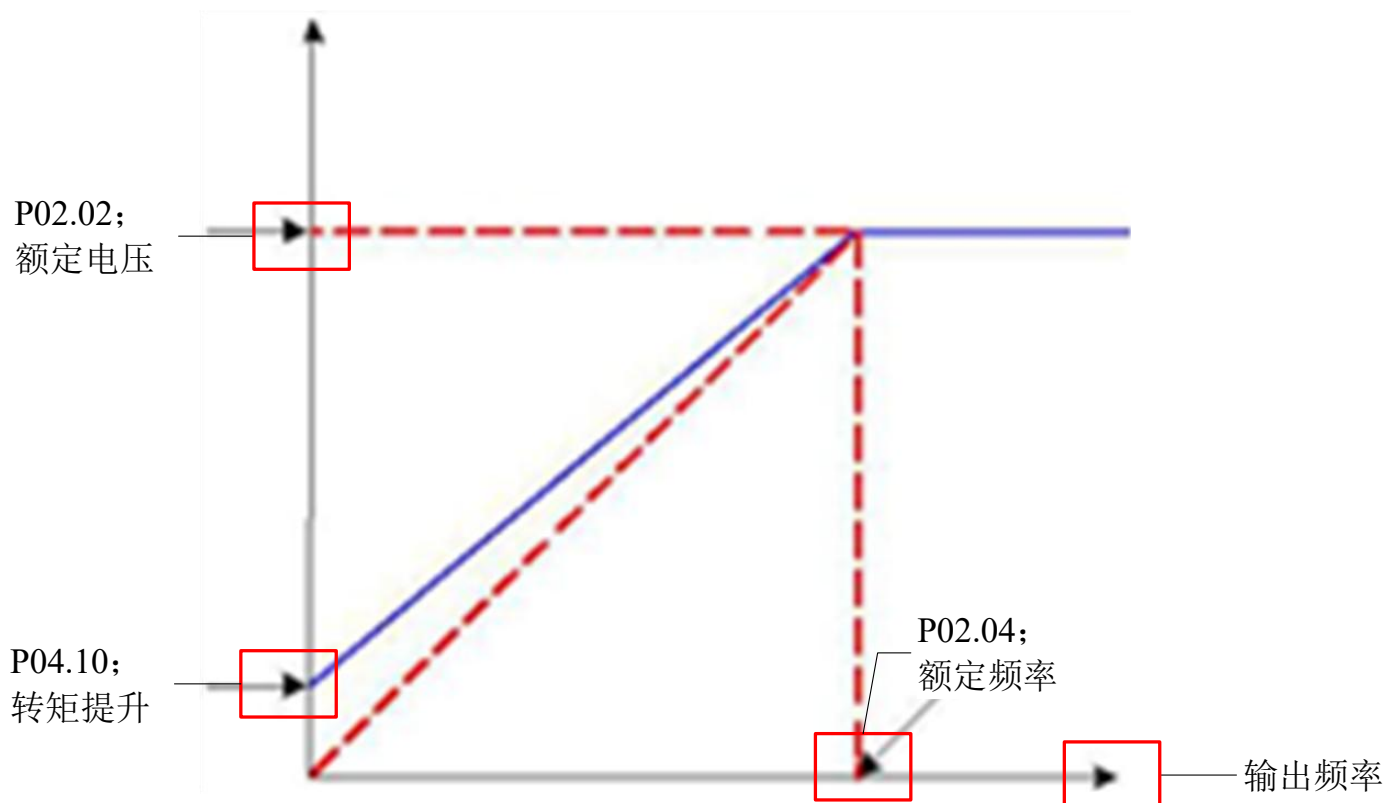
Linear VF, Multi-point VF, Square Curve VF Settings

Parameter	Function	Default	Setting range
P04.00	VF curve setting	0	0: Linear VF 1: Multi-point VF 2: Square VF 3: 1.2th VF 4: 1.4th VF 6: 1.6th VF 8: 1.8th VF 9: Reserved 10: VF complete separation mode 11: VF semi-separation mode
P04.10	Torque boost	Define by model	0.0%~30.0%
P04.09	Torque Boost Cut-off Frequency	50.00HZ	0.0%~Max frequency
P04.02	Multi-point VF frequency point 1	0.00HZ	0.00HZ~ P04.04
P04.03	Multi-point VF voltage point 1	0.0%	0.0%~100.0%
P04.04	Multi-point VF frequency point 2	0.00HZ	P04.02~ P04.03
P04.05	Multi-point VF voltage point 2	0.0%	0.0%~100.0%

P04.06	Multi-point VF frequency point 3	0.00HZ	P04.04~Motor's rated frequency (P02.04)
P04.07	Multi-point VF voltage point 3	0.0%	0.0%~100.0%

2.2 General constant torque linear VF curve

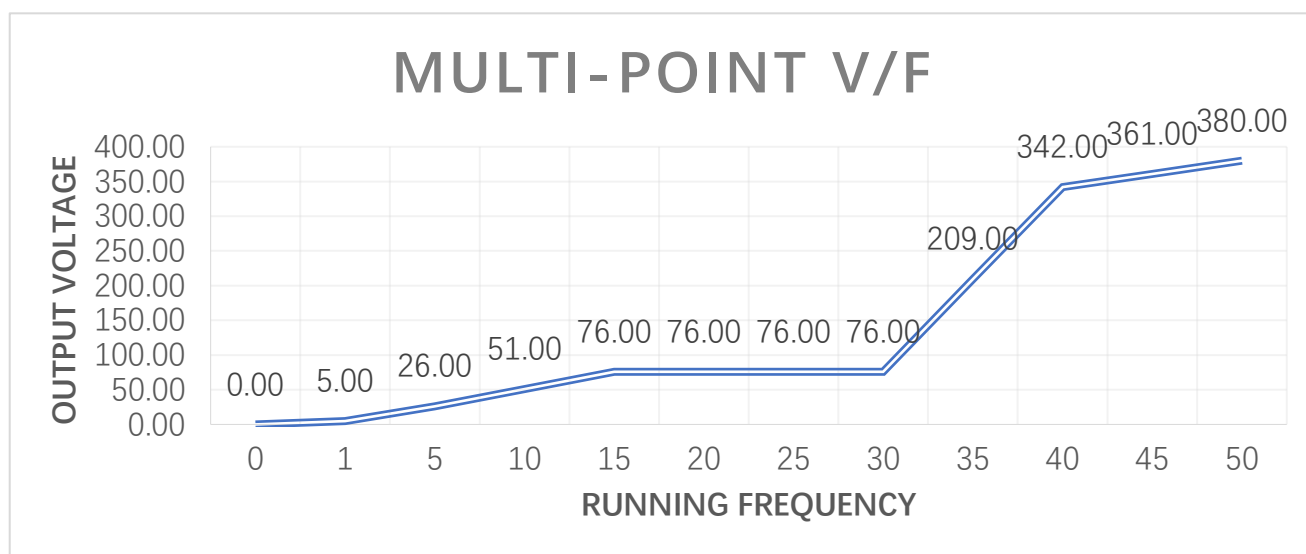


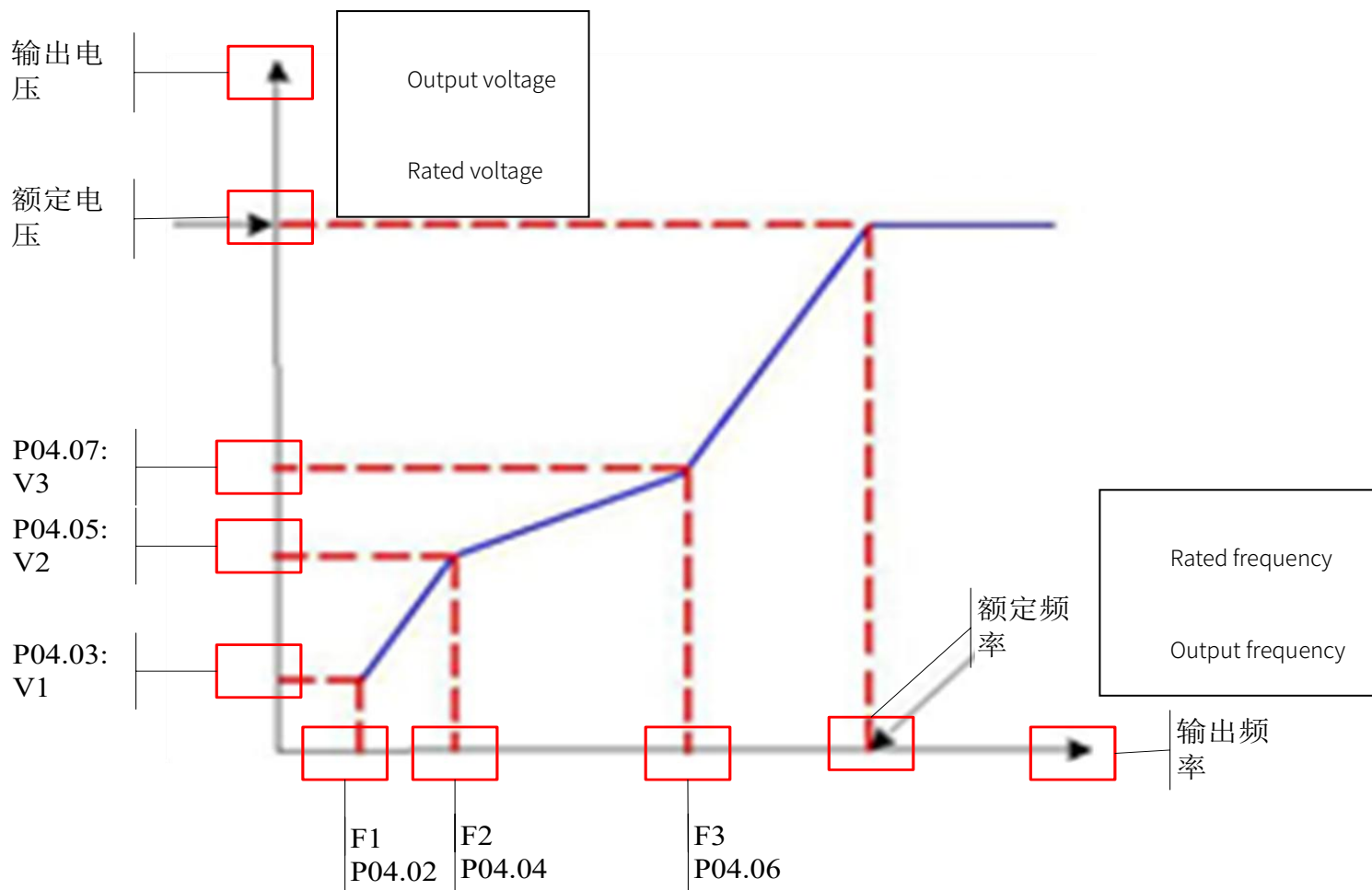


General Constant Torque Linear VF Curve

Below the rated frequency, the output voltage varies linearly with frequency, making it suitable for general mechanical transmission applications such as high-inertia fan acceleration, punch presses, centrifuges, and water pumps.

2.3 Customized multi-point VF curve





Customizable multi-point VF curve

Parameters P04.02 to P04.07 define the multi-point VF curve. The frequency point setting range is 0.00 Hz to the motor's rated frequency, and the voltage point setting range is 0% to 100%, corresponding to 0 V to the motor's rated voltage. The set values for the multi-point VF curve are typically determined based on the motor's load characteristics. Ensure the following settings: $P04.02 \leq P04.04 \leq P04.06$. To ensure correct settings, this inverter imposes constraints on the relationship between the upper and lower limits of frequency points P04.02, P04.04, and P04.06. When setting these parameters, first set P04.06, then P04.04, and finally P04.02.