

Vanguard U.S. Minimum Volatility ETF

As of June 30, 2022

VFMV

Investment approach

- Advisor uses a rules-based quantitative model to evaluate U.S. common stocks.
- Fund invests in stocks that together have the potential to generate lower volatility than the broad U.S. equity market.
- The portfolio includes a diverse mix of stocks representing many different market capitalizations (large, mid, and small), market sectors, and industry groups.
- Seeks long-term capital appreciation.
- Typically, at least 80% of the fund's assets will be invested in securities issued by U.S. companies.

About the benchmark

- The Russell 3000 Index measures the performance of the largest 3,000 companies representing approximately 98% of the investable U.S. equity market.
- The index is constructed to provide a comprehensive, unbiased, and stable barometer of the broad market and is reconstituted annually to ensure new and growing equities are included.

Performance history

Total returns² for period ended June 30, 2022

VFMV (Inception 02/13/2018)	Quarter	Year to date	1 year	3 years	Since inception
Net asset value (NAV) return ³	-6.13%	-8.66%	0.10%	5.84%	8.21%
Market price return ⁴	-6.15	-8.66	0.06	5.84	8.20
Russell 3000 Index	-16.70	-21.10	-13.87	9.77	9.64

The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data cited. For performance data current to the most recent month-end, visit our website at [vanguard.com/performance](https://www.vanguard.com/performance). The performance of an index is not an exact representation of any particular investment, as you cannot invest directly in an index.

Investment Products: Not FDIC Insured • No Bank Guarantee • May Lose Value

Quick facts

Benchmark	Russell 3000 Index
Expense ratio ¹	0.13%
Dividend schedule	Quarterly
ETF total net assets	\$64 million
Fund total net assets	\$64 million
Inception date	February 13, 2018

Trading information

Ticker symbol	VFMV
CUSIP number	921935409
IIV (intra-day ticker)	VFMV.IV
Index ticker (Bloomberg)	RU30INTR
Exchange	CBOE

ETF attributes

	U.S. Minimum Volatility ETF	Russell 3000 Index
Number of stocks	175	3,011
Median market cap	\$24.2B	\$114.7B
Price/earnings ratio	17.4x	17.6x
Price/book ratio	2.6x	3.2x
Return on equity	13.0%	19.6%
Earnings growth rate	11.3%	19.7%
Turnover rate ⁵	46.3	—
Standard deviation ⁶	15.49%	19.37%

¹ As reported in the most recent prospectus. A fund's current expense ratio may be lower or higher than the figure reported in the prospectus.

² Figures for periods of less than one year are cumulative returns. All other figures represent average annual returns. Fund performance figures assume the reinvestment of dividends and capital gains distributions; the figures are pre-tax and net of expenses. The above widely used comparative index represents unmanaged or average returns on various financial assets that can be compared with the fund's total returns for the purpose of measuring relative performance.

³ As of 4 p.m., Eastern time, when the regular trading session of the New York Stock Exchange typically closes.

⁴ Market price returns are calculated using the midpoint between the bid and offer prices at the time NAV is calculated, typically 4 p.m., Eastern time.

⁵ For most recent fiscal year. Turnover rate excludes the value of portfolio securities received or delivered as a result of in-kind purchases or redemptions of the fund's capital shares, including Vanguard ETF Creation Units.

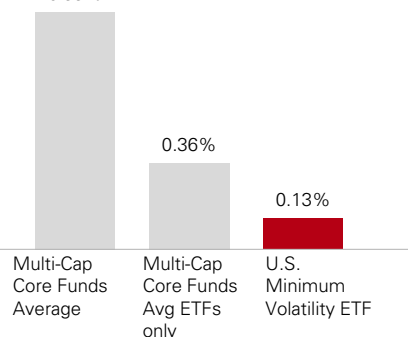
⁶ A measure of the volatility of a fund—based on the fund's last three years of monthly returns—used to indicate the dispersion of past returns. A higher standard deviation means a greater potential for volatility. For funds with less than 36 months of performance history, standard deviation is not calculated.

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Expense ratio comparison ¹



Ten largest holdings and % of total net assets ²

Colgate-Palmolive Co.	1.6%
Merck & Co. Inc.	1.6
Gilead Sciences Inc.	1.5
Amdocs Ltd.	1.5
OSI Systems Inc.	1.5
Johnson & Johnson	1.5
Eli Lilly & Co.	1.5
Verizon Communications Inc.	1.5
Dolby Laboratories Inc.	1.5
First Financial Corp.	1.5
Top ten as % of total net assets	15.2%

Market capitalization breakdown

Large Cap	37.3%
Medium/Large Cap	2.9
Medium Cap	15.0
Medium/Small Cap	5.8
Small Cap	38.9

Subindustry diversification as % of common stock ³

Health Care	17.3%
Technology	17.1
Financials	14.3
Consumer Staples	10.3
Consumer Discretionary	10.1
Utilities	8.9
Industrials	8.6
Telecommunications	8.3
Energy	2.8
Real Estate	1.4
Basic Materials	0.9
Other	0.0

¹ Represents the expense ratio for the Vanguard ETF as reported in the most recent prospectus. There are material differences between mutual funds and ETFs. Unlike mutual funds, ETFs are priced continuously and bought and sold throughout the day in the secondary market (at a premium or discount to net asset value) with the assistance of a stockbroker, which entails paying commissions. Sources: Lipper, a Thomson Reuters Company, and Vanguard, December 31, 2021.

² The holdings listed exclude any temporary cash investments and equity index products.

³ Sector categories are based on the Industry Classification Benchmark system ("ICB"), except for the "Other" category (if applicable), which includes securities that have not been provided an ICB classification as of the effective reporting period.

Vanguard ETF® Shares are not redeemable with the issuing Fund other than in very large aggregations worth millions of dollars. Instead, investors must buy or sell Vanguard ETF Shares in the secondary market and hold those shares in a brokerage account. In doing so, the investor may incur brokerage commissions and may pay more than net asset value when buying and receive less than net asset value when selling.

All ETF products are subject to risk, which may result in the loss of principal.

Factor funds are subject to investment style risk, which is the chance that returns from the types of stocks in which the fund invests will trail returns from the stock market. Factor funds are subject to manager risk, which is the chance that poor security selection will cause the fund to underperform relevant benchmarks or other funds with a similar investment objective.

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