ETF Analysis & Valuation Report for Vanguard S&P 500 ETF (VOO)

Report Generated on August 16, 2026

This report provides an AI-supported ETF analysis combining fund structure, underlying portfolio fundamentals, NAV and valuation context, distributions, implementation quality, technical signals, and qualitative evidence to help you better understand the fund's potential risks and rewards.

Report Data Summary

Report Data Field	Value
Exchange	PCX
Reporting Currency	USD
Market Timezone	America/New_York
Market Data As Of	2026-08-16 04:02:21

Choose how much detail you want to read

QUICK REPORT
Five concise pages in plain language

FULL DETAILED REPORT
Complete analysis, sources, charts, and disclosures

Both views are included in this single PDF. Use the tab-like links in the footer to move between them at any time.

Quick Report 1 of 5 - ETF Investment Snapshot

A plain-language overview of market price, NAV, fund quality, income, and the one-year market-price scenario.

Current ETF market price **$713.61** The exchange-traded price used for report comparisons.	NAV per share **$714.79** Latest structured-provider NAV used because the newest official NAV failed the seven-day freshness policy; it is not paired with the intraday market price to infer a premium/discount.	Premium / discount to NAV **Not available** Sponsor/exchange same-basis price-to-NAV relationship was not available on a validated common date.
Assets under management **$978.96 billion** Fund scale; larger scale can support product durability and liquidity.	Expense ratio **0.03%** Recurring fund cost that reduces investor returns over time.	Distribution yield **1.03%** Trailing/provider income yield from fund distributions.

What this means

The overall ETF outlook is moderately bullish. Evidence alignment is mixed. A same-time premium/discount to NAV was not available, so the report does not derive one from the current intraday price and an older NAV. Corporate operating-company DCF is not used for this ETF; valuation relies on NAV, underlying portfolio valuation, cost, liquidity, distributions, technical conditions, and market-price scenarios. ETF model confidence is medium.

One-year market-price scenario ranges

Bear range: $560.68 to $660.34; base range: $660.34 to $859.66; bull range: $859.66 to $959.32.

Confidence: Low. The center estimate of $760.00 is a secondary reference inside the wider uncertainty range, not a promised price.

NAV is a current asset-value reference, while future market-price scenarios are estimates. Neither is a guarantee of future return.

Quick Report 2 of 5 - What Could Help or Hurt the ETF

The strongest supported positives, the most important fund/portfolio risks, and developments that could change the view.

Why the ETF could do better

- Vanguard's scheduled late-August distribution cycle can support predictable cash-return demand and may influence trading around the record, ex-dividend, and payable dates within the near term.
- The broad U.S. equity rally tied to cooler inflation data and reduced rate-hike pressure can improve risk appetite, which may lift the S&P 500 portfolio and the ETF's market price.
- Sustained net inflows can reinforce fund scale, secondary-market liquidity, and implementation quality, which can support tighter NAV alignment and more efficient trading.

What could go wrong

- The top 10 positions represent 37.80% of the portfolio, so weakness in major constituents can disproportionately pressure the underlying portfolio and NAV.
- Elevated overbought technical readings can increase mean-reversion risk, which may soften the market price even if the long-term trend remains constructive.
- Wider spreads, benchmark slippage, or operational implementation issues could reduce liquidity and realized tracking quality, which may weaken investor returns relative to the index.

What would change the view

- A sustained break above the recent resistance area with improving momentum and volume would justify higher 30-day and 90-day estimates.
- A sustained move below short-term support, combined with fading RSI and MACD deterioration, would warrant lower near-term estimates.
- Better-than-expected broad market breadth, stronger dividend support, or persistent inflows into large-cap index funds would support raising the medium- and long-term forecasts.

Beginner note: ETF returns come from the underlying portfolio plus distributions, less fund costs and trading frictions. Fund price can also differ temporarily from NAV.

Quick Report 3 of 5 - Fund and Portfolio Quality

ETF-specific fundamentals: scale, cost, diversification, income, liquidity, and weighted valuation of the underlying holdings.

ETF measure	Report value	Why it matters
AUM	$978.96 billion	Scale and product durability
NAV	$714.79	Underlying asset value per share; source timing is disclosed in the ETF snapshot
Premium / discount	Not available	Trading price versus NAV
Expense ratio	0.03%	Recurring fund cost
Point-in-time bid-ask spread	0.02%	Secondary-market trading friction; standardized median preferred when available
Annual holdings turnover	2.40%	Portfolio trading and rebalancing intensity
Holdings	506	Diversification breadth
Top-10 concentration	37.80%	Concentration in largest positions
Portfolio trailing P/E	27.50x	Weighted underlying valuation
Category trailing P/E	Not available	Category valuation context
Portfolio forward P/E	Not available	Forward underlying valuation
Portfolio price/book	5.40x	Underlying holdings versus book value
30-day SEC yield	Not available	Standardized income measure when available

ETF implementation quality

Implementation-quality score: 8.5/10. This score is based on available fund scale, cost, standardized/recent spread, and NAV-alignment evidence. Missing ETF data is left unavailable rather than reconstructed from corporate assumptions.

Top holding	Weight
NVDA	7.50%
AAPL	6.60%
GOOGL	5.80%
MSFT	4.30%
AMZN	3.60%

Corporate revenue, EBIT, profit margin, free cash flow, debt-to-equity, and corporate payout ratio are intentionally excluded from ETF fundamental scoring.

Quick Report 4 of 5 - Market Signals and Recent Developments

Price momentum, important price levels, material news, lawmaker disclosures, and validated option-chain quality without a corporate earnings-event assumption.

Market signal	Reading	ETF interpretation
Overall price signal	Mixed	Combined trend and momentum reading
Price vs. 200-day average	Above	Longer-term trend context
RSI	66.00	Momentum / stretched-condition gauge
Trend strength (ADX)	22.72	Trend strength, not direction
Trading volume vs. normal	0.76x	Liquidity and participation context
Typical daily move (ATR)	$6.88	Recent normal trading range
6-month technical relative return vs SPY	0.04%	Technical price-history proxy; separate from official sponsor benchmark tracking
Nearest support / resistance	$712.24 / $717.02	Nearby technical reference levels

Latest verified development: Event: Vanguard 2026 dividend schedule includes VOO's late-August quarter-end distribution dates.

Disclosure or screen	Quick finding
Lawmaker disclosures	No qualifying trades found
Corporate insider signal	Not applicable to ETF
Corporate earnings move	Not applicable to ETF
Call option screening	No supported scenario
Put option screening	No supported scenario

Quick Report 5 of 5 - Outlook, Confidence, and Next Steps

The modeled market-price path, ETF bottom line, validation status, and links into the complete supporting analysis.

Horizon	Bear range	Base range	Bull range	Confidence
Current	$713.61 - $713.61	$713.61 - $713.61 (center $713.61)	$713.61 - $713.61	Observed
30 days	$655.69 - $682.35	$682.35 - $735.65 (center $709.00)	$735.65 - $762.31	High
90 days	$629.71 - $676.86	$676.86 - $771.14 (center $724.00)	$771.14 - $818.29	Medium
180 days	$601.27 - $669.13	$669.13 - $804.87 (center $737.00)	$804.87 - $872.73	Medium
365 days	$560.68 - $660.34	$660.34 - $859.66 (center $760.00)	$859.66 - $959.32	Low

Bear, base, and bull zones divide the modeled uncertainty band. The exact center estimate remains a secondary reference, not a promised price.

Bottom line

The report's overall ETF outlook is moderately bullish. Model confidence is medium, so the results should be treated as informed estimates rather than promises. The strongest support is VOO's large-cap S&P 500 exposure combined with strong fund quality, very low expenses, tight liquidity, and a technically bullish price trend above the 200-day EMA.

Confidence and validation

Report-wide ETF validation status: Passed with review items. 45 ETF-specific checks were performed. 1 failed or review-level item(s) require attention.

Forecast accuracy statistics remain withheld until 100 forecasts have matured. 0 have matured and 100 more are required.

OPEN FULL DETAILED REPORT | **VIEW DETAILED CONTENTS**

The Quick Report summarizes the same canonical ETF data and completed report sections shown in the detailed report. It does not replace detailed sources, assumptions, tables, or disclosures.

Full Detailed Report - Table of Contents

Return to the five-page Quick Report

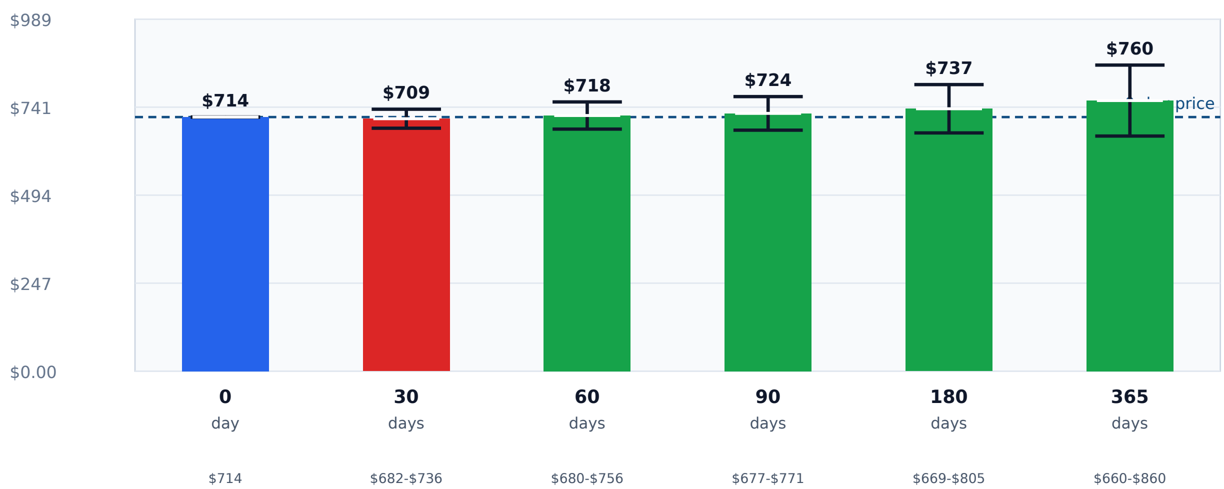
Executive Summary - (VOO) Vanguard S&P 500 ETF

At a Glance

Current ETF Market Price **$713.61**	Latest Provider NAV / Share **$714.79**
Model View **Moderately Bullish**	Evidence Alignment **Mixed**
Valuation Confidence **Medium**	

One-Year Profit/Loss: ETF vs High-Yield Savings

Base-Case Price Ranges by Interval



Solid bars show each interval's center estimate. Thin whiskers show the complete base-case range. Future intervals are green when the center estimate is above the 0-day price and red when it is below; the 0-day observation is blue.

Forecast Scenario Ranges (Primary View)

Horizon	Bear range	Base range	Bull range	Confidence
Current	$713.61 - $713.61	$713.61 - $713.61 center $713.61	$713.61 - $713.61	Observed
30 days	$655.69 - $682.35	$682.35 - $735.65 center $709.00	$735.65 - $762.31	High
60 days	$641.65 - $679.83	$679.83 - $756.17 center $718.00	$756.17 - $794.35	Medium
90 days	$629.71 - $676.86	$676.86 - $771.14 center $724.00	$771.14 - $818.29	Medium
180 days	$601.27 - $669.13	$669.13 - $804.87 center $737.00	$804.87 - $872.73	Medium
365 days	$560.68 - $660.34	$660.34 - $859.66 center $760.00	$859.66 - $959.32	Low

Bear, base, and bull zones divide the existing 80% modeled uncertainty band. The exact center estimate is retained only as a secondary reference and is not a promised price.

Investment View

Model View: Moderately Bullish; Evidence Alignment: Mixed; Valuation Confidence: Medium

Key Catalysts

- Vanguard's scheduled late-August distribution cycle can support predictable cash-return demand and may influence trading around the record, ex-dividend, and payable dates within the near term.
- The broad U.S. equity rally tied to cooler inflation data and reduced rate-hike pressure can improve risk appetite, which may lift the S&P 500 portfolio and the ETF's market price.
- Sustained net inflows can reinforce fund scale, secondary-market liquidity, and implementation quality, which can support tighter NAV alignment and more efficient trading.

Key Risks

- The top 10 positions represent 37.80% of the portfolio, so weakness in major constituents can disproportionately pressure the underlying portfolio and NAV.
- Elevated overbought technical readings can increase mean-reversion risk, which may soften the market price even if the long-term trend remains constructive.
- Wider spreads, benchmark slippage, or operational implementation issues could reduce liquidity and realized tracking quality, which may weaken investor returns relative to the index.

ETF Investment Projection (100 Shares)

Starting Investment: $71,361.00

Projected Sale Proceeds: $76,000.00

ETF Investment Projection (100 Shares) (continued...)

Projected Annual Distribution Per Share: $7.34

Projected Distribution Income: $734.50

Capital Gain or Loss: $4,639.00

Projected Ending Value: $76,734.50

Total Profit: $5,373.50

Risk and Reward: Equity-market risk; the projected result includes sale proceeds plus the selected forward annual distribution, which may change over time.

High-Yield Savings Projection

Assumed HYSA APY: 3.40%

Rate Source: Marcus by Goldman Sachs - Online Savings Account (MARCUS_ONLINE_SAVINGS_APY)

Source Observation Date: 2026-08-15

Retrieved: 2026-08-16

Assumption: The displayed APY is assumed to remain unchanged for one year, and interest is reinvested. Representative variable APY quoted by the named FDIC-insured online savings provider; it is not a market-wide maximum, and the rate may change before or after an account is opened.

Starting Deposit: $71,361.00

Projected Ending Value: $73,787.27

Total Profit: $2,426.27

Risk and Reward: Lower market risk; the projection assumes the stated APY remains available for the full year and interest is reinvested.

Profit Comparison

1. The 100-share ETF projection produces total profit of $5,373.50, which is $2,947.23 higher than the high-yield savings projection.
2. The high-yield savings projection produces total profit of $2,426.27, which is $2,947.23 lower than the 100-share ETF projection.

Call Option Screening Result

No supported call option scenario was identified.

Put Option Screening Result

No supported put option scenario was identified.

Model View

Model View: Moderately Bullish; Evidence Alignment: Mixed; Valuation Confidence: Medium

ETF view uses portfolio/fund structure, category-relative portfolio valuation when available, distributions, implementation quality, technical conditions, and the 365-day market-price scenario; corporate DCF and company earnings metrics are excluded. The 365-day center scenario implies 6.50% versus the current market price. Validated fund-data completeness is 83.00% and implementation-quality score is 8.5/10. Key ETF-specific factors: technical trend is mixed; distribution yield is 1.03% versus 3.40% for the comparison savings rate.

How ETF Valuation Fits Together

Method	Value	What it measures
NAV	714.79 USD per share	Current value of underlying fund assets, not a forward price target.
Market price	713.61 USD per share	Current exchange-traded price.
365-day modeled price	760.00 USD per share (6.50%)	Market-price scenario blending technical, macro, portfolio, distribution, catalyst, and risk evidence.
Corporate DCF	Not applicable	Explicitly excluded for ETF securities.

Reconciliation: NAV is the fund's current asset-value reference, while the 365-day scenario is a forward market-price estimate. Portfolio valuation multiples provide relative context; none is a promised price.

Fund Overview - (VOO) Vanguard S&P 500 ETF

Overview

The fund manager employs an indexing investment approach designed to track the performance of the Standard & Poor's 500 Index, a widely recognized benchmark of U.S. stock market performance that is dominated by the stocks of large U.S. companies. The advisor attempts to replicate the target index by investing all, or substantially all, of its assets in the stocks that make up the index, holding each stock in approximately the same proportion as its weighting in the index. The fund is non-diversified.

Fund Structure

Fund category	Large Blend
Fund family / sponsor	Vanguard
Legal structure	Exchange Traded Fund
Benchmark / index	S&P 500 Index
Inception date	2010-09-07

Core Fund Characteristics

Measure	Value	ETF relevance
Market price	713.61 USD	Exchange-traded price
NAV	714.79 USD	Per-share value of underlying fund assets
AUM	978.96 billion USD	Scale of the fund
Expense ratio	0.03%	Recurring annual fund cost
Holdings	506	Portfolio breadth
Annual holdings turnover	2.40%	Portfolio trading/rebalancing intensity

ETF Analytical Basis

This report evaluates the ETF as a pooled investment vehicle. The core economic evidence is the underlying portfolio, NAV, market-price relationship, cost, diversification, distributions, liquidity, benchmark/style exposure, and market behavior. Operating-company revenue, EBIT, free cash flow, debt, ROE, and corporate DCF are not used as fund fundamentals.

Source Reconciliation

- Current-NAV freshness policy: the newest official NAV (689.63 USD as of 2026-06-16) was rejected as current because it failed the seven-day freshness rule; the latest structured-provider NAV is used only as a fallback asset-value reference and is not paired with the intraday market price to manufacture a premium/discount.
- AUM source reconciliation: the validated sponsor/regulatory value 978.96 billion USD as of 2026-06-30 was selected over the structured-provider value 1686.88 billion USD; the values differ by 72.30%.
- Premium/discount to NAV was suppressed because the report did not validate a sponsor-published premium/discount or a same-as-of NAV and market-price observation; intraday price is not paired with a prior-close NAV.

Sources

1. Vanguard S&P 500 ETF fact sheet | Retrieved 2026-08-16 | Open source

2. Vanguard S&P 500 ETF investment profile | Retrieved 2026-08-16 | Open source

3. SPDR S&P 500 ETF Trust official fact sheet | Retrieved 2026-08-16 | Open source

4. iShares Core S&P 500 ETF official fund page | Retrieved 2026-08-16 | Open source

5. SPDR Portfolio S&P 500 ETF official fund page | Retrieved 2026-08-16 | Open source

Sources (continued...)

6. Schwab U.S. Large-Cap ETF official fund page | Retrieved 2026-08-16 | Open source

7. Invesco S&P 500® Equal Weight ETF - Invesco US - Invesco S&P 500 Equal Weight ETF | Retrieved 2026-08-16 | Open source

8. Yahoo Finance ETF summary for VOO | Retrieved 2026-08-16 | Open source

9. Yahoo Finance ETF holdings for VOO | Retrieved 2026-08-16 | Open source

Sponsor, Manager, and Fund Governance - (VOO) Vanguard S&P 500 ETF

Fund Sponsor and Structure

Fund family / sponsor: Vanguard.

Legal structure: Exchange Traded Fund.

Benchmark / index: S&P 500 Index.

Governance Relevance

For an ETF, investor analysis should focus on sponsor quality, index methodology, custody/administration, expense discipline, liquidity, tracking, and adherence to the stated mandate. Corporate CEO/CFO profitability analysis is not applicable to the fund itself.

Management Risk

- Changes to index methodology or fund mandate can alter portfolio exposures.
- Sponsor operational, compliance, or liquidity-management failures could impair implementation quality.
- Persistent outflows or insufficient scale can increase closure or restructuring risk for smaller funds.

Sources

1. Vanguard S&P 500 ETF fact sheet | Retrieved 2026-08-16 | Open source

2. Vanguard S&P 500 ETF investment profile | Retrieved 2026-08-16 | Open source

Sources (continued...)

3. SPDR S&P 500 ETF Trust official fact sheet | Retrieved 2026-08-16 | Open source

4. iShares Core S&P 500 ETF official fund page | Retrieved 2026-08-16 | Open source

5. SPDR Portfolio S&P 500 ETF official fund page | Retrieved 2026-08-16 | Open source

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7. Invesco S&P 500® Equal Weight ETF - Invesco US - Invesco S&P 500 Equal Weight ETF | Retrieved 2026-08-16 | Open source

8. Yahoo Finance ETF summary for VOO | Retrieved 2026-08-16 | Open source

9. Yahoo Finance ETF holdings for VOO | Retrieved 2026-08-16 | Open source

Newsworthy Events - (VOO) Vanguard S&P 500 ETF

Decision Takeaway

Favorable. The verified news flow is led by VOO's scheduled late-August dividend distribution dates, which is a concrete near-term cash-event for holders. Separately, the broad U.S. equity rally tied to cooler inflation data and reduced rate-hike pressure is supportive for an S&P 500 tracker, although that market effect is an inference rather than a fund-specific disclosure.

Key News Events

1. Event: Vanguard 2026 dividend schedule includes VOO's late-August quarter-end distribution dates.
Category: Company.
Directional Relevance: Favorable, because the verified distribution calendar supports a predictable cash-return event for holders.
Expected Timeframe: Near term, with the record date on 2026-08-31, the ex-dividend/reinvest date on 2026-09-01, and the payable date on 2026-09-02.
Impact Path: The analytical implication is that the upcoming distribution cycle may affect trading around the ex-dividend date and informs dividend capture and tax planning decisions.
Confidence: High.
Source References: [1].

2. Event: US stocks rise to a record as oil prices drop and inflation gets less bad.
Category: Market macro.
Directional Relevance: Favorable, because a record-setting broad market move can support an ETF that tracks the S&P 500.
Expected Timeframe: Immediate to near term.
Impact Path: The analytical implication is that cooler inflation and less pressure on the Federal Reserve to keep tightening can improve risk appetite and lift the ETF through its index exposure.
Confidence: Medium.
Source References: [2].

Historical Analogues

1. Current Event: Vanguard 2026 dividend schedule includes VOO's late-August quarter-end distribution dates.
Current Event Source Reference: [1]
Comparable Event 1: Vanguard 2025 dividend schedule lists VOO's year-end distribution dates (2025-12-22)
Similarity: Same company and same event type: Vanguard's published dividend schedule for VOO, showing a scheduled quarterly distribution cycle with record/ex-dividend/payable dates.
Observed Stock Reaction: 0.63% after 1 trading day; 1.09% after 5 trading days; 0.72% after 20 trading days.
Market-Adjusted 1-Trading-Day Reaction: 0.01% versus SPY.
Historical Source References: [3], [4]
Comparable Event 2: Vanguard 2024 dividend schedule lists VOO's quarterly distribution dates (2024-09-27)
Similarity: Same company and same event type: VOO's scheduled quarterly dividend cycle in Vanguard's dividend calendar, with record, ex-dividend, and payable dates.
Observed Stock Reaction: -0.13% after 1 trading day; -0.80% after 5 trading days; 1.22% after 20 trading days.
Market-Adjusted 1-Trading-Day Reaction: 0.02% versus SPY.
Historical Source References: [5], [4]
Historical Impact Estimate: The 2 usable analogue reactions had a median 1-trading-day market-adjusted move of 0.01% and a range of 0.01% to 0.02%. At the current price of $713.61, this corresponds to an estimated per-share effect near +$0.08 with an observed analogue range of +$0.05 to +$0.11. Confidence: Low-to-Medium. This is a historical scenario estimate, not a prediction or proof of causation.

Risks and Limitations

- Source coverage is limited to two verified events, so the catalog may not capture every fund-specific or market-moving development relevant to VOO.
- The causal path from macro news to ETF performance is inferential, because the market article does not isolate VOO-specific flows or returns.
- Market pricing may already reflect the dividend schedule and the broader equity rally, which could limit incremental near-term impact.

What Would Change the View

- A verified change to VOO's announced distribution record date, ex-dividend date, or payable date would materially change the near-term cash-event outlook.
- A new SEC, issuer, or exchange disclosure showing a fee change, index methodology change, or share-class action affecting VOO would change the view.
- A verified broad-market reversal driven by materially hotter inflation data, tighter Federal Reserve expectations, or a sharp S&P 500 selloff would weaken the current favorable bias.

Sources

1. Vanguard 2026 dividend schedule includes VOO’s late-August quarter-end distribution dates | Published 2026-07-31 | Open source

2. US stocks rise to a record as oil prices drop and inflation gets less bad (AP News) | Published 2026-08-13 | Open source

3. Vanguard 2025 dividend schedule lists VOO’s year-end distribution dates | Event date 2025-12-22 | Open source

4. Yahoo Finance adjusted historical prices for VOO | Retrieved 2026-08-16 | Open source

5. Vanguard 2024 dividend schedule lists VOO’s quarterly distribution dates | Event date 2024-09-27 | Open source

Political Trades Over Last 30 Days - (VOO) Vanguard S&P 500 ETF

Data Availability

No qualifying political trades were identified for Vanguard S&P 500 ETF during the last 30 days from the configured political-disclosure sources.

Impact on Analysis

Neutral.

Market Coverage Note

Political-trade coverage is limited to United States financial markets and reflects disclosures located by the configured sources during this report run.

Source References: [1], [2], [3], [4]

Sources

1. CapitolExposed disclosures for VOO | Retrieved 2026-08-16 | Open source
2. Capitol Trades disclosure database | Retrieved 2026-08-16 | Open source
3. CongressInvests disclosure database | Retrieved 2026-08-16 | Open source
4. Bargo congressional trading data | Retrieved 2026-08-16 | Open source

Insider Activity - (VOO) Vanguard S&P 500 ETF

Applicability

Not applicable as a corporate-insider signal. An ETF is a pooled investment vehicle rather than an operating company with officers buying or selling employer shares as a conventional insider-fundamental indicator.

Impact on Analysis

Neutral. Sponsor, adviser, or trustee transactions are not treated as equivalent to operating-company insider purchases or sales and do not affect the ETF Model View unless a separately verified fund-specific event is economically material.

ETF Industry and Peer Context - (VOO) Vanguard S&P 500 ETF

Decision Takeaway

The structured data provider categorizes Vanguard S&P 500 ETF as Large Blend; this label is contextual rather than a direct-peer classification. ETF competitive position is anchored first to the official benchmark/objective, then total cost, liquidity, tracking quality, scale, income characteristics, portfolio valuation, benchmark-relative performance, and investor demand.

Category Comparison

Measure	Fund	Category average	Interpretation
Expense ratio	0.03%	Not available	Lower recurring cost is favorable
Holdings turnover	2.40%	Not available	Portfolio trading/rebalancing intensity
Portfolio trailing P/E	27.50x	Not available	Underlying equity valuation context
Portfolio price/book	5.40x	Not available	Underlying portfolio valuation context
Portfolio earnings growth	23.00%	Not available	Aggregate growth characteristic

Named Direct Peers

Ticker	Peer ETF	Expense ratio	AUM	30-day SEC yield	3-year return
SPY	SPDR S&P 500 ETF Trust	0.09%	Not available	1.15%	20.58%
IVV	iShares Core S&P 500 ETF	0.03%	Not available	1.25%	20.61%
SPLG	SPDR Portfolio S&P 500 ETF	0.02%	Not available	1.15%	20.58%
SCHK	Schwab U.S. Large-Cap ETF	0.03%	Not available	1.20%	20.55%
RSP	Invesco S&P 500 Equal Weight ETF	0.20%	Not available	Not available	Not available

Benchmark and Implementation Context

- Official benchmark/index: S&P 500 Index.
- Structured-provider category: Large Blend (context only; not used to invent direct peers).
- Standardized spread basis: point-in-time bid-ask spread at 0.02%.
- Tracking difference: -0.03% (3 years annualized).

Risks and Limitations

- Named peers are included only when official fund sources support a materially similar investor use case through objective, income/factor/style exposure, portfolio construction, benchmark exposure, or holdings characteristics; broad category labels alone are not sufficient.
- Fee competition, style rotation, benchmark changes, persistent outflows, or benchmark slippage can weaken an ETF even when its underlying securities remain investable.

What Would Change the View

- Persistent inflows, tight tracking, competitive cost, narrow standardized spreads, and stable benchmark-relative performance would strengthen the competitive assessment.
- Persistent outflows, wider spreads, weak tracking, fee disadvantage, or loss of relative performance versus close substitutes would weaken it.

Sources

1. Vanguard S&P 500 ETF fact sheet | Retrieved 2026-08-16 | Open source

2. Vanguard S&P 500 ETF investment profile | Retrieved 2026-08-16 | Open source

3. SPDR S&P 500 ETF Trust official fact sheet | Retrieved 2026-08-16 | Open source

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9. Yahoo Finance ETF holdings for VOO | Retrieved 2026-08-16 | Open source

Fund Fundamentals and Portfolio Analysis - (VOO) Vanguard S&P 500 ETF

Decision Takeaway

ETF implementation-quality score: 8.5/10. The fund is evaluated from NAV, costs, scale, liquidity, diversification, underlying portfolio valuation/growth, turnover, and income characteristics; company revenue, margins, debt, ROE, and free cash flow are intentionally excluded.

Core ETF Metrics

Measure	Value	ETF relevance
AUM	978.96 billion USD	Fund scale and asset-base durability
NAV	714.79 USD	Official per-share asset value as of stated source date
Premium / discount	Not available	Sponsor/exchange same-basis price-to-NAV relationship as of stated source date
Expense ratio	0.03%	Annual fund-level cost drag
Annual holdings turnover	2.40%	Portfolio trading/rebalancing intensity
Holdings	506	Diversification breadth
Top-10 concentration	37.80%	Concentration in largest positions
Portfolio trailing P/E	27.50x	Weighted valuation of underlying holdings
Portfolio forward P/E	Not available	Forward valuation of underlying holdings
Portfolio price/book	5.40x	Underlying holdings relative to book value
Portfolio price/cash flow	Not available	Underlying holdings relative to cash flow
Portfolio earnings growth	23.00%	Aggregate earnings-growth characteristic
30-day median bid-ask spread	Not available	Standardized recent secondary-market trading friction
Point-in-time bid-ask spread	0.02%	Snapshot quote; not used when a standardized median spread is available
Tracking difference	-0.03%	Fund return minus stated benchmark when provider data is available
Tracking error	Not available	Variability of benchmark-relative return when provider data is available

Top Holdings

Holding	Name	Weight
NVDA	NVIDIA Corp.	7.50%
AAPL	Apple Inc.	6.60%
GOOGL	Alphabet Inc.	5.80%
MSFT	Microsoft Corp.	4.30%
AMZN	Amazon.com Inc.	3.60%
AVGO	Broadcom Inc.	2.80%
MU	Micron Technology Inc.	2.00%
META	Meta Platforms Inc.	1.90%
TSLA	Tesla Inc.	1.80%
LLY	Eli Lilly & Co.	1.50%

Sector Allocation

Sector	Weight
Information Technology	38.00%
Financials	11.80%
Communication Services	9.70%
Consumer Discretionary	9.30%
Health Care	8.90%
Industrials	8.80%
Consumer Staples	4.60%
Energy	3.00%
Utilities	2.20%
Materials	1.80%
Real Estate	1.80%
Other	0.10%

Sector allocation source basis: official_primary.

Source Reconciliation

- Current-NAV freshness policy: the newest official NAV (689.63 USD as of 2026-06-16) was rejected as current because it failed the seven-day freshness rule; the latest structured-provider NAV is used only as a fallback asset-value reference and is not paired with the intraday market price to manufacture a premium/discount.
- AUM source reconciliation: the validated sponsor/regulatory value 978.96 billion USD as of 2026-06-30 was selected over the structured-provider value 1686.88 billion USD; the values differ by 72.30%.
- Premium/discount to NAV was suppressed because the report did not validate a sponsor-published premium/discount or a same-as-of NAV and market-price observation; intraday price is not paired with a prior-close NAV.

Risks and Limitations

- Portfolio valuation ratios describe the weighted underlying holdings and are not corporate financial statements of the ETF.
- Missing fund metrics are left unavailable rather than reconstructed from operating-company assumptions.
- NAV, holdings, sector weights, AUM, turnover, spreads, and tracking measures change over time and should be interpreted using the stated retrieval date.

Sources

1. Vanguard S&P 500 ETF fact sheet | Retrieved 2026-08-16 | Open source

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Portfolio Expectations - (VOO) Vanguard S&P 500 ETF

Decision Takeaway

Traditional company analyst revenue/EPS consensus is not treated as an ETF fundamental. Expectations are evaluated through the underlying portfolio, official benchmark/style exposure, aggregate valuation/growth characteristics, distributions, macro conditions, and modeled market-price scenarios.

Portfolio Valuation and Growth

Portfolio trailing P/E	27.50x
Category trailing P/E	Not available
Portfolio forward P/E	Not available
Portfolio earnings-growth estimate	23.00%

Fund vs Benchmark Performance

Horizon	Fund return	Benchmark return	Fund minus benchmark
YTD	15.19%	15.20%	-0.01%
1 year	22.28%	22.32%	-0.04%
3 years annualized	20.58%	20.61%	-0.03%
5 years annualized	13.36%	13.41%	-0.05%
10 years annualized	15.47%	15.51%	-0.04%

Interpretation

Benchmark-relative returns are realized implementation evidence, not forecasts. Persistent slippage beyond the expense ratio or unusually unstable tracking would weaken implementation quality; historical returns do not guarantee future performance.

Sources

1. Vanguard S&P 500 ETF fact sheet | Retrieved 2026-08-16 | Open source

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Technical Analysis - (VOO) Vanguard S&P 500 ETF

Decision Takeaway

The near-term technical setup is Mixed. The strongest confirming signal is the EMA5 reading of 711.47, while the strongest conflicting signal is the Stochastic %K reading of 93.93 (Overbought). Price is above the 200-day EMA, and the key invalidation level is 712.24.

Indicator Summary

Indicator	Value	Signal
EMA5	711.47	Bullish
EMA10	706.85	Bullish
EMA20	700.01	Bullish
EMA50	689.34	Bullish
EMA200	661.87	Bullish
MACD	7.92	Bullish
Stochastic %K	93.93	Overbought
Stochastic %D	91.83	Overbought
Latest RSI	66.00	Bullish

Market Context and Risk Metrics

Metric Value Plain-English meaning

Calculation basis Yahoo Finance price and volume data retrieved 2026-08-16 Every displayed indicator and price relationship was calculated deterministically in Python from the cited historical market data.

Market Context and Risk Metrics (continued...)

14-day average true range	**6.88 (0.96% of price)**	**Typical daily price movement; a larger value means wider normal swings.**
14-day ADX	22.72	Measures trend strength, not direction; this reading indicates a weak or developing trend.
Relative volume	0.76x	Latest volume divided by the prior 20-day average; above 1.00x means activity is heavier than usual.

Technical relative return vs SPY broad-market ETF proxy 6 months 0.04%, 1 year -0.20% Technical market-price relative-strength proxy; separate from official sponsor fund-vs-benchmark performance and tracking.

52-week position -0.39% from high, 24.09% from low Shows where the current price sits within its one-year trading range.

Key Price Levels

Level	Value	Interpretation
Pivot Point	714.32	Reference level
R1	717.02	Resistance
R2	719.10	Resistance
R3	721.80	Resistance
S1	712.24	Support
S2	709.54	Support
S3	707.46	Support

Technical Interpretation

- Price at 713.61 is above the 200-day EMA at 661.87; MACD is 7.92.
- RSI is 66.00; stochastic %K/%D are 93.93/91.83, indicating elevated overbought risk.
- The pivot is 714.32, with first resistance at 717.02 and first support at 712.24; a sustained break should define the next directional move.

Risks and Limitations

- Technical indicators are backward-looking and can change quickly after material market, macroeconomic, fund, or issuer-specific developments.
- Bullish trend signals can coexist with overbought oscillators, creating false-breakout and mean-reversion risk.
- Relative strength versus SPY broad-market ETF proxy is a technical price-history proxy and is separate from sponsor-reported official benchmark performance/tracking; the two measures can legitimately differ because their instruments and return bases differ.

What Would Change the View

- A close above R1 at 717.02 with follow-through and improving momentum would strengthen the bullish case.
- A sustained move below S1 at 712.24 would weaken the setup and increase downside risk.
- RSI cooling from 66.00 toward a neutral range while price holds support would reduce exhaustion risk; renewed acceleration above 70.00 without price confirmation would increase it.

Source References: [1], [2], [3]

Sources

1. Yahoo Finance historical prices and volume for VOO | Retrieved 2026-08-16 | Open source

2. Yahoo Finance short-interest and options data for VOO | Retrieved 2026-08-16 | Open source

3. Yahoo Finance historical prices for SPY broad-market ETF proxy | Retrieved 2026-08-16 | Open source

Distribution and Income Analysis - (VOO) Vanguard S&P 500 ETF

Decision Takeaway

The selected trailing distribution yield is 1.03%. ETF income quality is evaluated from distributions and the underlying portfolio rather than a corporate payout ratio.

Distribution Profile

Trailing selected annual distribution	7.34 USD per share
Calculated / provider distribution yield	1.03%
30-day SEC yield	Not available

Sustainability

- ETF distributions primarily reflect dividends and other distributable income received from underlying holdings, net of fund expenses.
- A corporate payout ratio, company free cash flow, leverage, and board capital-allocation policy are not used as fund-level coverage tests.
- Distribution levels can change as holdings, constituent dividends, index composition, expenses, and market prices change.

What Would Change the View

- A sustained reduction in constituent dividend capacity or fund distributions would weaken the income assessment.
- A higher SEC/distribution yield supported by stable underlying fundamentals would strengthen the income case.
- Material changes in index composition or expense ratio would require reassessment.

Sources

1. Vanguard S&P 500 ETF fact sheet | Retrieved 2026-08-16 | Open source

2. Vanguard S&P 500 ETF investment profile | Retrieved 2026-08-16 | Open source

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ETF Valuation and Portfolio Quality - (VOO) Vanguard S&P 500 ETF

Decision Takeaway

A standard operating-company discounted-cash-flow valuation is Not Applicable to this ETF and is intentionally not calculated or used in the Model View. ETF valuation is assessed through NAV, premium/discount, underlying portfolio valuation and growth, cost, diversification, liquidity, category context, tracking quality, and relative market scenarios.

ETF Valuation Framework

Measure	Fund value	Category / reference	Interpretation
Market price	713.61 USD	NAV 714.79 USD as of stated source date	Current exchange price and official NAV are separate references unless the same-basis relationship below is available
Premium / discount to NAV	Not available	0.00% is NAV parity	Sponsor/exchange same-basis relationship as of stated source date
Portfolio trailing P/E	27.50x	Not available	Underlying equity valuation versus category
Portfolio forward P/E	Not available	Not available	Forward valuation of underlying holdings
Portfolio price/book	5.40x	Not available	Underlying portfolio valuation versus category
Portfolio price/cash flow	Not available	Not available	Underlying cash-flow multiple versus category
Portfolio earnings growth	23.00%	Not available	Growth context for valuation multiples
Expense ratio	0.03%	Category Not available	Recurring implementation cost
Tracking difference	-0.03%	Benchmark-relative	Fund return minus benchmark return when available
Tracking error	Not available	Lower is tighter	Variability of benchmark-relative returns when available
30-day median bid-ask spread	Not available	Lower is better	Standardized recent trading friction when available
Implementation-quality score	8.5/10	10.0/10 maximum	Scale, cost, standardized spread, and NAV alignment

Why DCF Is Not Applicable

The ETF owns a changing portfolio of securities and is designed to pass through the economics of those assets. Treating normalized fund accounting fields as corporate revenue, EBIT, capital expenditure, working capital, and terminal FCFF would create a fictional operating company and a misleading intrinsic value. This report explicitly prohibits that method for ETFs.

Risks and Limitations

- Portfolio multiples do not produce a single guaranteed fair-value price and can remain above or below historical or category norms for extended periods.
- Category averages may not be exact direct peers; named peer-relative conclusions require a validated direct-peer dataset.
- NAV and market price can diverge temporarily during stressed or illiquid trading conditions.

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1. Vanguard S&P 500 ETF fact sheet | Retrieved 2026-08-16 | Open source

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Investment Thesis - (VOO) Vanguard S&P 500 ETF

Decision Takeaway

The ETF thesis is determined by the quality and valuation of the underlying portfolio, income characteristics, cost and liquidity of the wrapper, S&P 500 Index exposure, benchmark-relative performance, and market-price behavior. Corporate profit margins and corporate DCF are excluded.

Bull Case

- Income yield of 1.03% can support income-oriented demand if the underlying constituents sustain payouts.
- Expense ratio of 0.03%, standardized spread of 0.02%, and close NAV alignment can improve long-run implementation efficiency.
- A market price near NAV (Not available premium/discount) limits wrapper-level valuation distortion when the relationship remains stable.

Bear Case

- Top-10 concentration of 37.80% can amplify security- or sector-specific weakness.
- Style rotation, rising competing yields, broad market weakness, or benchmark-relative underperformance can pressure the underlying portfolio and secondary-market price.
- Distribution reductions, persistent outflows, wider standardized spreads, higher fees, or weak tracking would weaken the investment case.

Key Catalysts

- Improving underlying earnings growth or a favorable valuation regime for Large Blend could lift portfolio value.
- Sustained fund inflows and tight benchmark tracking could strengthen liquidity and implementation quality.

Key Catalysts (continued...)

- Stable or improving distributions supported by constituent fundamentals could reinforce income demand.

Principal Risks

- A material rise in Treasury yields or discount rates can compress the valuation of income-oriented equities.
- Concentrated constituent or sector weakness can reduce NAV even when the ETF wrapper functions normally.
- Fee disadvantage, tracking slippage, persistent outflows, or wider trading friction can reduce realized investor returns versus substitutes.

What Would Change the View

- Better category-relative portfolio valuation with stable growth, distributions, and benchmark-relative performance would strengthen the thesis.
- Persistent premium/discount instability, worsening tracking, higher costs, weaker liquidity, or declining distributions would weaken it.

Overall Thesis

Current evidence supports a fund-level thesis centered on portfolio valuation, income, benchmark exposure, and implementation quality. The fund's 8.5/10 implementation score should be interpreted together with the official benchmark, standardized trading spread, cost, and realized tracking evidence rather than as a standalone recommendation.

Sources

1. Vanguard S&P 500 ETF fact sheet | Retrieved 2026-08-16 | Open source

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SWOT Analysis - (VOO) Vanguard S&P 500 ETF

SWOT Matrix

Strengths	Weaknesses
• Fund scale: AUM is 978.96 billion USD, which can support product durability and secondary-market liquidity. • Cost transparency: the reported expense ratio is 0.03%. • Income profile: distribution yield is 1.03%, supporting income-oriented demand when underlying distributions remain sustainable. • Implementation quality: the deterministic fund-quality score is 8.5/10, incorporating scale, cost, spread, and NAV alignment.	• Concentration: the top 10 positions represent 37.80% of the portfolio, so weakness in large constituents can disproportionately affect returns. • ETF performance remains dependent on the underlying index/style exposure and cannot avoid unfavorable constituent or sector moves. • Benchmark implementation must be monitored: tracking difference -0.03%. Persistent deterioration would reduce realized index exposure quality. • Comparison precision is reduced because category expense, category valuation, 30-day SEC yield data is not currently available from the structured source set.
Opportunities	**Threats**
• Favorable style rotation or lower discount rates can improve valuation multiples and demand for the underlying portfolio. • Underlying portfolio earnings growth of 23.00% could support distributions and valuation if it persists. • Persistent net inflows can increase fund scale and secondary-market liquidity while reinforcing product durability. • Competitive costs, tight spreads, and reliable benchmark tracking can strengthen product-market fit versus substitute ETFs.	• Lower-cost or more liquid substitute ETFs can attract assets and reduce the fund's relative product appeal. • Distribution reductions or weakening constituent fundamentals can reduce income appeal and pressure secondary-market demand. • Broad market weakness, adverse style rotation, or rising discount rates can compress underlying portfolio valuations and NAV. • Wider spreads, larger NAV premiums/discounts, or worsening benchmark tracking during stressed markets can impair implementation quality and realized investor returns.

Decision Takeaway

The ETF SWOT balance is driven primarily by implementation quality (8.5/10), scale (978.96 billion USD AUM), income (1.03%). The most important decision question is whether portfolio fundamentals and fund implementation quality remain strong enough to offset concentration, style, substitution, and market-liquidity risks.

What Would Change the View

- Sustained improvement or deterioration in NAV alignment, bid-ask spread, flows, and benchmark tracking would materially change the implementation-quality assessment.
- A durable change in category-relative portfolio valuation and underlying earnings growth would change the medium-term reward/risk balance.
- A material change in distribution sustainability, fund costs, concentration, or competitive substitution would change the ETF's income and product-quality thesis.

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ETF Competitive Advantage Analysis - (VOO) Vanguard S&P 500 ETF

Decision Takeaway

Overall ETF competitive advantage: Moderate, with Medium durability. ETF advantage is evaluated from sponsor distribution, scale, cost, standardized liquidity, tracking, differentiated exposure, and competitive alternatives rather than operating-company pricing power.

Advantage Sources

1. Scale and liquidity. Strength: Strong. Supporting evidence: AUM 978.96 billion USD and point-in-time bid-ask spread 0.02%.
2. Cost efficiency. Strength: Strong. Supporting evidence: expense ratio 0.03% versus category Not available.
3. Portfolio proposition. Strength: Moderate. Supporting evidence: category/style Large Blend, distribution/SEC yield 1.03%, top-10 concentration 37.80%, and benchmark S&P 500 Index.
4. Competitive evidence. Validated named direct-peer identities: 5; peers with retrieved official comparison metrics: 5.

Evidence Against a Durable Advantage

- ETF exposures are often replicable, so direct substitutes can compete aggressively on fees, liquidity, benchmark exposure, and tax efficiency.
- Sponsor brand and scale improve distribution but do not guarantee superior underlying investment returns.
- A durable advantage requires persistent implementation quality, tight tracking, competitive cost, and investor demand across market cycles.

Risks and Limitations

- Close-substitute peer data are shown only when validated official sponsor sources support a materially similar investment role; exact objective or benchmark wording is not required.
- Tracking metrics are not estimated when official or structured evidence is unavailable.

What Would Change the View

- Sustained inflows, tight benchmark-relative performance, narrow standardized spreads, and a durable cost advantage would strengthen the assessment.
- Persistent outflows, fee disadvantage, wider spreads, poor tracking, or easy substitution would weaken it.

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1. Vanguard S&P 500 ETF fact sheet | Retrieved 2026-08-16 | Open source

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Conclusions - (VOO) Vanguard S&P 500 ETF

Forecast Scenario Ranges (Primary View)

Horizon	Bear range	Base range	Bull range	Confidence
Current	$713.61 - $713.61	$713.61 - $713.61 (center $713.61)	$713.61 - $713.61	Observed
30 days	$655.69 - $682.35	$682.35 - $735.65 (center $709.00)	$735.65 - $762.31	High
60 days	$641.65 - $679.83	$679.83 - $756.17 (center $718.00)	$756.17 - $794.35	Medium
90 days	$629.71 - $676.86	$676.86 - $771.14 (center $724.00)	$771.14 - $818.29	Medium
180 days	$601.27 - $669.13	$669.13 - $804.87 (center $737.00)	$804.87 - $872.73	Medium
365 days	$560.68 - $660.34	$660.34 - $859.66 (center $760.00)	$859.66 - $959.32	Low

Bear, base, and bull ranges are presentation zones derived from the existing 80% modeled uncertainty band. Exact center estimates remain available below as secondary references for continuity and deterministic calculations; none of the values is guaranteed.

Decision Takeaway

Model View: Moderately Bullish; Evidence Alignment: Mixed; Valuation Confidence: Medium

Near-term conditions are mixed. The strongest support is VOO's large-cap S&P 500 exposure combined with strong fund quality, very low expenses, tight liquidity, and a technically bullish price trend above the 200-day EMA. The greatest risk is near-term overbought conditions, with RSI and stochastic readings elevated and the current price sitting just below the recent high, which raises mean-reversion risk.

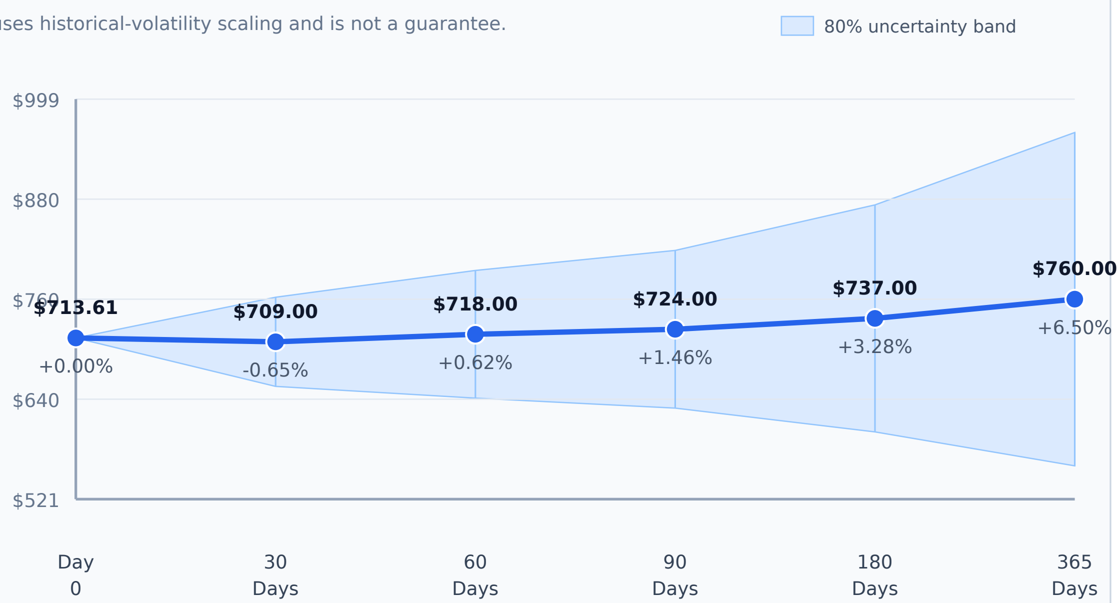
Point Estimates (Secondary Reference)

Line	Interval	Price	Growth Percentage
1	0 Days	713.61	0.00%
2	30 Days	709.00	-0.65%
3	60 Days	718.00	0.62%
4	90 Days	724.00	1.46%
5	180 Days	737.00	3.28%
6	365 Days	760.00	6.50%

These exact center estimates are retained as secondary references. Use the bear/base/bull ranges and confidence labels above as the primary decision view.

Forecast Price Path with 80% Uncertainty Band

Band uses historical-volatility scaling and is not a guarantee.



Forecast Performance Scorecard

Forecast accuracy statistics are withheld until at least 100 forecasts have matured. 0 have matured and 100 more are required.

Metric	Value	Basis
Completed forecasts	0	Matured saved forecasts with an observed target-date close.
Minimum publication sample	100	Predefined threshold intended to reduce misleading small-sample claims.
Directional accuracy	Withheld	Published only after the minimum sample is reached.
Median absolute percentage error	Withheld	Published only after the minimum sample is reached.
80.00% uncertainty-band coverage	Withheld	Published only after the minimum sample is reached.

Forecast Rationale

1. 0 Days. The current price is fixed at 713.61, so the starting point is unchanged. The technical backdrop is supportive, but the overbought oscillator readings argue against assuming immediate upside from this base.

2. 30 Days. A conservative drift lower is appropriate because price is near recent highs and short-term momentum is stretched. The ETF's strong structure and market leadership reduce downside depth, but the mixed technical setup favors a modest pullback or consolidation.

3. 60 Days. The estimate rebounds slightly as the broader uptrend, low expense ratio, and broad S&P 500 diversification should continue to support NAV and market price. Fund fundamentals remain constructive, though valuation is not cheap enough to justify aggressive upside.

4. 90 Days. The 90-day view stays mildly positive because the ETF remains above long-term trend support and benefits from strong implementation quality. Distribution stability and index exposure should help, but the forecast stays conservative due to elevated near-term technical fatigue.

Forecast Rationale (continued...)

5. 180 Days. A gradual appreciation path is supported by the fund's scale, liquidity, portfolio quality, and favorable competitive position. Longer trend history favors continued participation in large-cap market gains, although concentration in top holdings limits the pace of expected advance.

6. 365 Days. The one-year estimate assumes moderate total return potential driven by persistent index growth, low costs, and durable fund governance. The forecast remains conservative because valuations are already elevated and future gains are more likely to track broad market earnings and sentiment than to accelerate.

Risks and Limitations

- Short-term price action can diverge from the fund's strong underlying quality, especially after overbought readings or market-wide pullbacks.
- The ETF is concentrated in large-cap growth leaders, so weakness in the top holdings can pressure returns even if the wrapper remains efficient.
- Distribution timing, macro news, and rate expectations can shift the path materially, creating forecast error around the near-term intervals.

What Would Change the View

- A sustained break above the recent resistance area with improving momentum and volume would justify higher 30-day and 90-day estimates.
- A sustained move below short-term support, combined with fading RSI and MACD deterioration, would warrant lower near-term estimates.
- Better-than-expected broad market breadth, stronger dividend support, or persistent inflows into large-cap index funds would support raising the medium- and long-term forecasts.

Call Option Quality Screening - (VOO) Vanguard S&P 500 ETF

Options Methodology

Each long-call scenario uses the option's actual expiration date, displayed ask, and stock forecast interpolated to expiration. Contracts must pass deterministic expiration, positive-bid, quote-freshness, volume, open-interest, implied-volatility, absolute-delta, bid-ask-spread, and positive modeled-return standards. A long call benefits from a share price above strike plus premium at expiration; ranking is quality-adjusted rather than based on raw profit.

Decision Takeaway

No call contract met the required liquidity, quote-quality, expiration, delta, volatility, and positive modeled-return standards.

Call Option Screening Result

No supported call option scenario passed the deterministic quality policy.

Risks and Limitations

- The modeled expiration stock price is uncertain and may fall outside the displayed range.
- Risk-neutral probability is derived from option-pricing inputs and is not a real-world forecast probability.
- Bid-ask spreads, changing implied volatility, early exercise considerations, taxes, commissions, and execution timing can materially change realized results.

Source References: [1]

Sources

1. Yahoo Finance call option chain for VOO | Retrieved 2026-08-16 | Open source

Put Option Quality Screening - (VOO) Vanguard S&P 500 ETF

Options Methodology

Each long-put scenario uses the option's actual expiration date, displayed ask, and stock forecast interpolated to expiration. Contracts must pass deterministic expiration, positive-bid, quote-freshness, volume, open-interest, implied-volatility, absolute-delta, bid-ask-spread, and positive modeled-return standards. A long put benefits from a share price below strike minus premium at expiration and may be used for bearish exposure or portfolio protection; this report evaluates the put as a standalone purchased contract, not as personalized hedging advice.

Decision Takeaway

No put contract met the required liquidity, quote-quality, expiration, absolute-delta, volatility, and positive modeled-return standards.

Put Option Screening Result

No supported put option scenario passed the deterministic quality policy.

Risks and Limitations

- A purchased put can lose the entire premium through time decay or an unfavorable stock path even when the longer-term investment thesis is bearish.
- Risk-neutral probability is derived from option-pricing inputs and is not a real-world forecast probability or an estimate of personal portfolio protection.
- Bid-ask spreads, changing implied volatility, early exercise considerations, taxes, commissions, contract deliverables, and execution timing can materially change realized results.

Risks and Limitations (continued...)

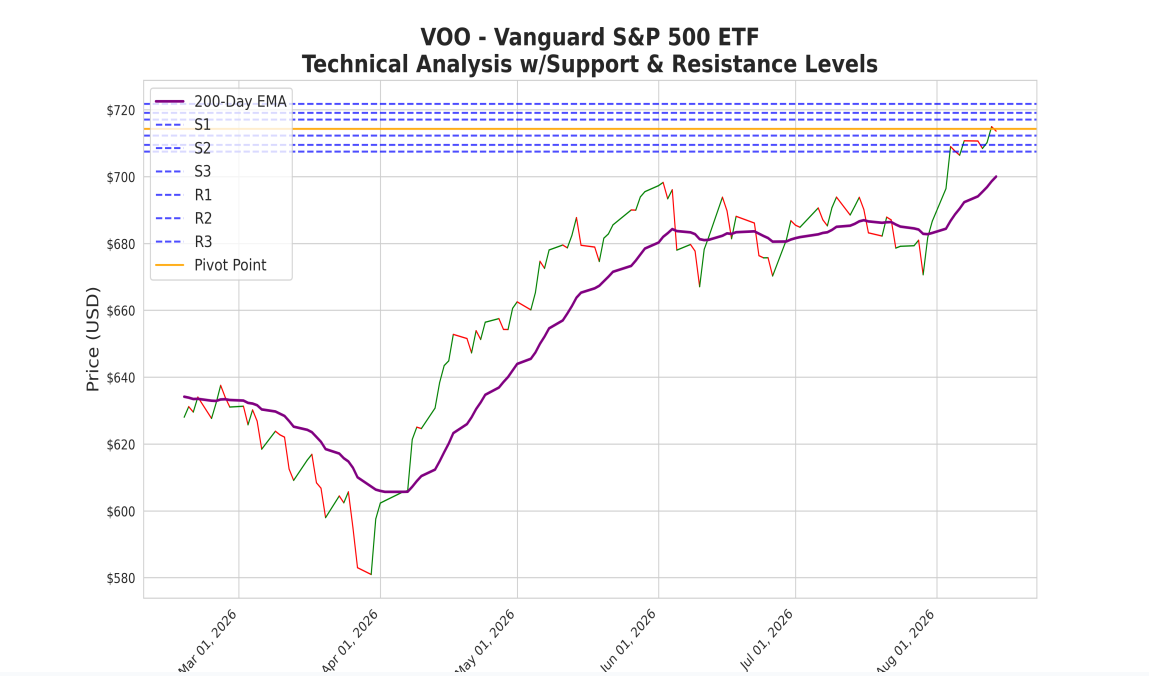
Source References: [1]

Sources

1. Yahoo Finance put option chain for VOO | Retrieved 2026-08-16 | Open source

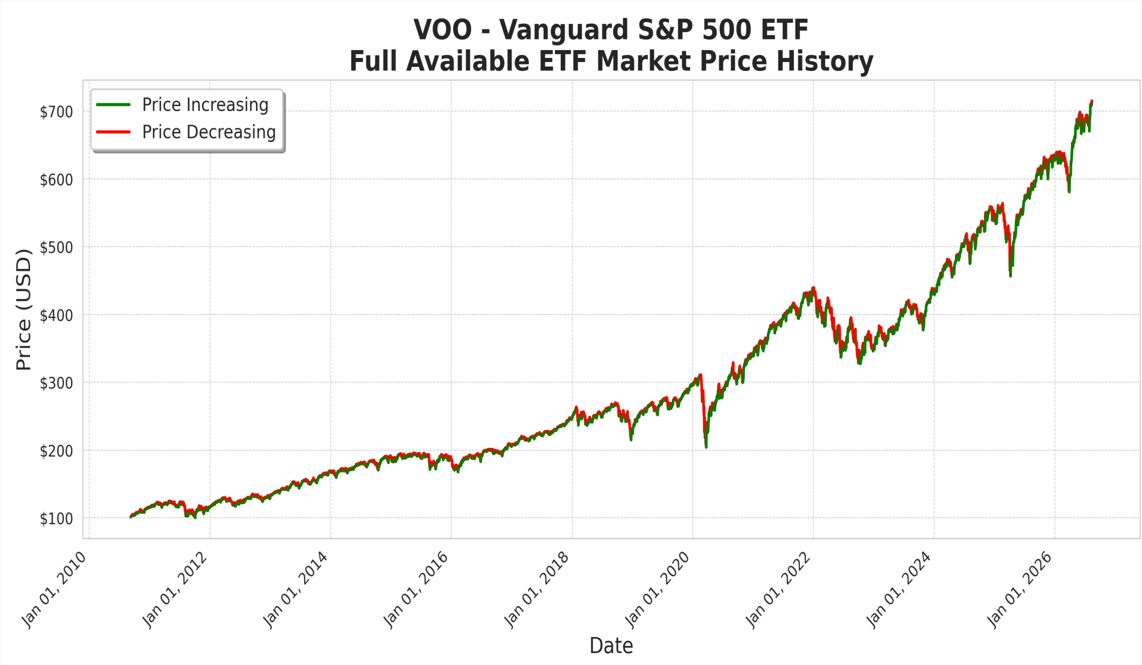
Appendix – Charts & Graphs

Six-Month Technical Trend, 200-Day EMA, Support, Resistance, and Pivot



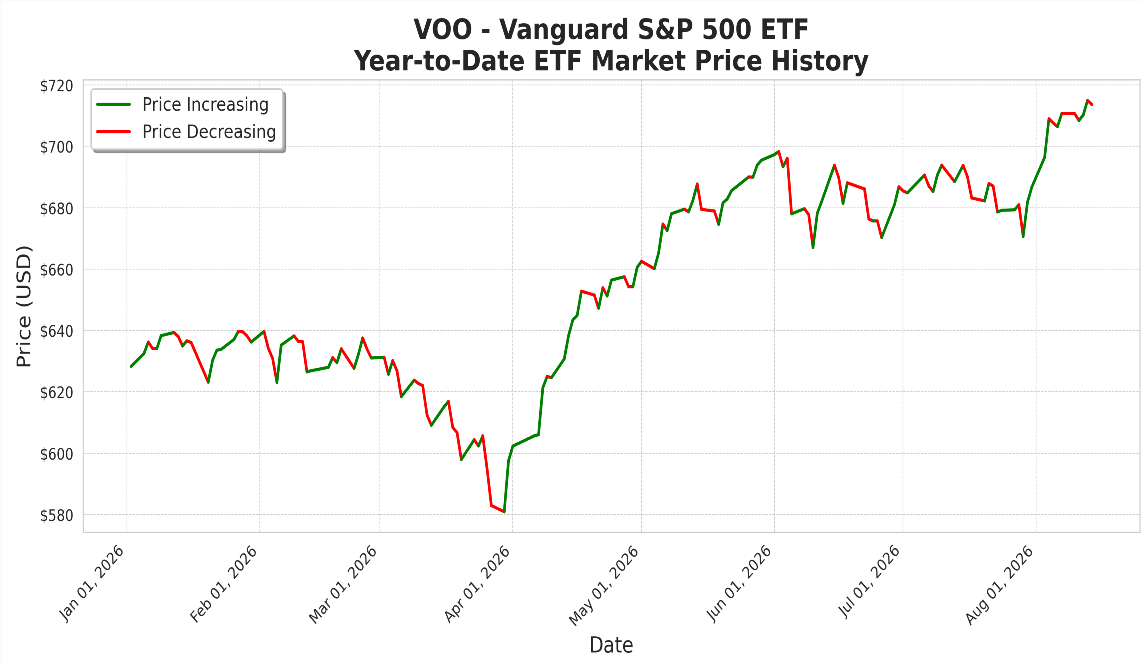
Timeframe: 6 months; interval: daily. Source: Yahoo Finance market data retrieved 2026-08-16. Interpretation: shows current trend relative to the long-term EMA and deterministic support/resistance levels.

Full Available ETF Market Price History



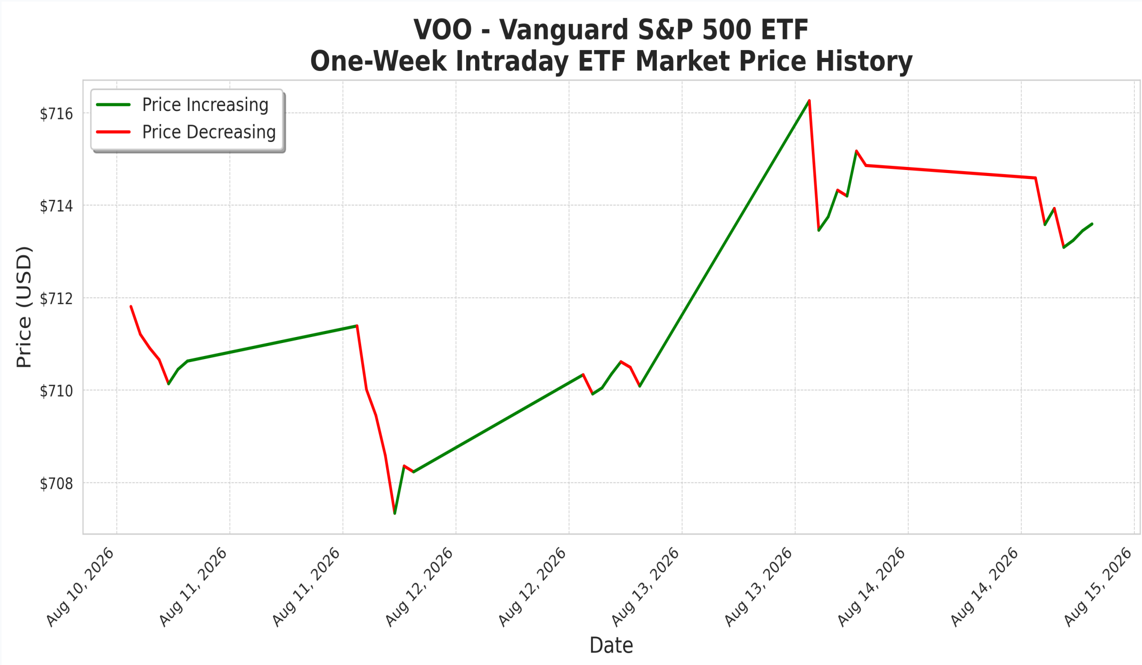
Timeframe: Full available history; daily interval. Source: Yahoo Finance market data retrieved 2026-08-16. Interpretation: Places the current valuation in the security's complete trading-history context.

Year-to-Date ETF Market Price History



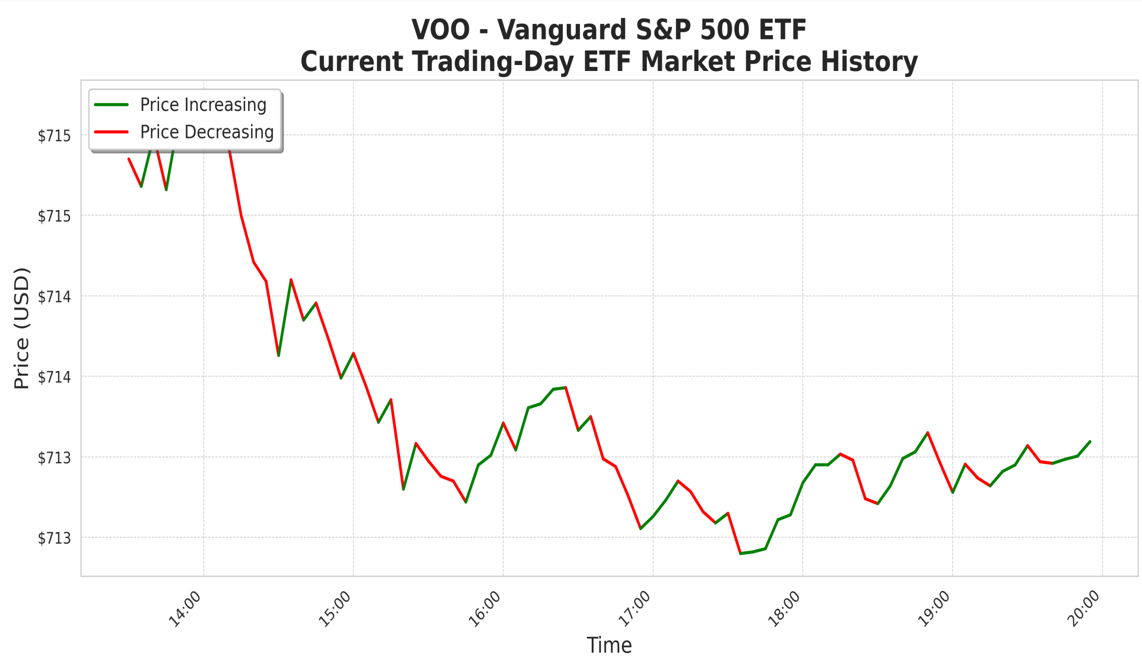
Timeframe: Year to date; daily interval. Source: Yahoo Finance market data retrieved 2026-08-16. Interpretation: Shows the current-year trend and major reversals.

One-Week Intraday ETF Market Price History



Timeframe: Latest 5 trading days; hourly interval. Source: Yahoo Finance market data retrieved 2026-08-16. Interpretation: Shows short-term momentum and recent volatility.

Current Trading-Day ETF Market Price History



Timeframe: Latest trading day; 5-minute interval. Source: Yahoo Finance market data retrieved 2026-08-16. Interpretation: Shows intraday direction and price variability.

Important Disclosures and Limitations

Report Validation

Validation Summary Field	Value
Validation Status	Passed with informational limitations
Validation Checks Performed	45
Failed Validation Checks	0
Review-Level Validation Checks	1

Some non-critical claims or supplemental data were omitted when their dates, citations, or source quality could not be verified. Core deterministic calculations and reconciliations completed successfully.

The table below summarizes each material failure or review-level limitation in customer-facing language. Detailed diagnostics remain in the application logs.

Validation Check	Result	Severity	Explanation
Current ETF source freshness	Review	Warning	ETF current fund-data freshness requires review: nav_per_share newest official observation was rejected as stale at 61 days old (2026-06-16)

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