

Summary Prospectus

BlackRock Variable Series Funds, Inc.

- **BlackRock 60/40 Target Allocation ETF V.I. Fund (Class I, Class III)**

Before you invest, you may want to review the Fund's prospectus, which contains more information about the Fund and its risks. You can find the Fund's prospectus (including amendments and supplements), reports to shareholders and other information about the Fund, including the Fund's statement of additional information, online at <https://www.blackrock.com/prospectus>. You can also get this information at no cost by calling (800) 537-4942 or by sending an e-mail request to prospectus.request@blackrock.com, or from your financial professional. The Fund's prospectus and statement of additional information, both dated May 1, 2024, as amended and supplemented from time to time, are incorporated by reference into (legally made a part of) this Summary Prospectus.

This Summary Prospectus contains information you should know before investing, including information about risks. Please read it before you invest and keep it for future reference.

The Securities and Exchange Commission has not approved or disapproved these securities or passed upon the adequacy of this Summary Prospectus. Any representation to the contrary is a criminal offense.

Not FDIC Insured • May Lose Value • No Bank Guarantee

Summary Prospectus

Key Facts About BlackRock 60/40 Target Allocation ETF V.I. Fund

Investment Objective

The investment objective of BlackRock 60/40 Target Allocation ETF V.I. Fund (the “Fund”) is to seek to provide total return.

Fees and Expenses of the Fund

This table describes the fees and expenses that you may pay if you buy, hold and sell shares of the Fund. **The table and example below do not include separate account fees and expenses, and expenses would be higher if these fees and expenses were included.** Please refer to your variable annuity or insurance contract (the “Contract”) prospectus for information on the separate account fees and expenses associated with your Contract.

Shareholder Fees (fees paid directly from your investment)

The Fund is not subject to any shareholder fees.

Annual Fund Operating Expenses (expenses that you pay each year as a percentage of the value of your investment)	Class I Shares	Class III Shares
Management Fees ¹	0.15%	0.15%
Distribution and/or Service (12b-1) Fees	None	0.25%
Other Expenses	0.24%	0.25%
Acquired Fund Fees and Expenses ²	0.12%	0.12%
Total Annual Fund Operating Expenses ²	0.51%	0.77%
Fee Waivers and/or Expense Reimbursements ^{1,3}	(0.20)%	(0.21)%
Total Annual Fund Operating Expenses After Fee Waivers and/or Expense Reimbursements ^{1,3}	0.31%	0.56%

¹ The Management Fee payable by the Fund is based on assets estimated to be attributable to the Fund’s direct investments in fixed-income and equity securities and instruments, including exchange-traded funds advised by BlackRock Fund Advisors (“BFA”) or other investment advisers, other investments and cash and cash equivalents (including money market funds). BlackRock Advisors, LLC (“BlackRock”) has contractually agreed to waive the Management Fee on assets estimated to be attributed to the Fund’s investments in other equity and fixed-income mutual funds managed by BlackRock or its affiliates through June 30, 2025. In addition, BlackRock has contractually agreed to waive its management fees by the amount of investment advisory fees the Fund pays to BlackRock indirectly through its investment in money market funds managed by BlackRock or its affiliates, through June 30, 2025. The contractual agreements may be terminated upon 90 days’ notice by a majority of the non-interested directors of BlackRock Variable Series Funds, Inc. (the “Company”) or by a vote of a majority of the outstanding voting securities of the Fund.

² The Total Annual Fund Operating Expenses do not correlate to the ratios of expenses to average net assets given in the Fund’s most recent annual report, which do not include Acquired Fund Fees and Expenses.

³ As described in the “Management of the Funds” section of the Fund’s prospectus, BlackRock has contractually agreed to waive and/or reimburse fees or expenses in order to limit Total Annual Fund Operating Expenses After Fee Waivers and/or Expense Reimbursements (excluding Dividend Expense, Interest Expense, Acquired Fund Fees and Expenses and certain other Fund expenses) to 0.19% (for Class I Shares) and 0.44% (for Class III Shares) of average daily net assets through June 30, 2025. The contractual agreement may be terminated upon 90 days’ notice by a majority of the non-interested directors of the Company or by a vote of a majority of the outstanding voting securities of the Fund.

Example:

This Example is intended to help you compare the cost of investing in the Fund with the cost of investing in other mutual funds. The Example assumes that you invest \$10,000 in the Fund for the time periods indicated and then redeem all of your shares at the end of those periods. The Example also assumes that your investment has a 5% return each year and that the Fund’s operating expenses remain the same. The Example does not reflect charges imposed by the Contract. See the Contract prospectus for information on such charges. Although your actual costs may be higher or lower, based on these assumptions and the net expenses shown in the fee table, your costs would be:

	1 Year	3 Years	5 Years	10 Years
Class I Shares	\$32	\$143	\$265	\$621
Class III Shares	\$57	\$225	\$407	\$935

Portfolio Turnover:

The Fund pays transaction costs, such as commissions, when it buys and sells securities (or “turns over” its portfolio). A higher portfolio turnover rate may indicate higher transaction costs. These costs, which are not reflected in annual

fund operating expenses or in the Example, affect the Fund's performance. During the most recent fiscal year, the Fund's portfolio turnover rate was 62% of the average value of its portfolio.

Principal Investment Strategies of the Fund

The Fund, which is a fund of funds, seeks to achieve its investment objective by investing in a portfolio of underlying exchange-traded funds ("ETFs") that seek to track equity and fixed-income indices. Under normal circumstances, the Fund seeks to invest at least 80% of its net assets plus any borrowings for investment purposes in iShares ETFs.

In general, the Fund invests in two different kinds of underlying ETFs: those that invest primarily in equity securities or certain other instruments described below (referred to as "equity ETFs") and those that invest primarily in fixed-income securities (referred to as "fixed-income ETFs").

The Fund generally expects to invest approximately 60% of its portfolio in equity ETFs and approximately 40% of its portfolio in fixed-income ETFs. Variations in the target asset allocation between equity ETFs and fixed-income ETFs are permitted up to 5%. Therefore, based on a target equity/fixed-income allocation of 60%/40%, the Fund may have an equity/fixed-income allocation that ranges from 65%/35% to 55%/45%. Although variations beyond the 5% range are generally not permitted, BlackRock may determine in light of market conditions or other factors that a greater variation is warranted to protect the Fund or achieve its investment goal.

The Fund's underlying ETFs may invest in securities and other financial instruments of companies of any market capitalization. The underlying ETFs may invest in securities and other financial instruments available in both U.S. and non-U.S. markets, including emerging markets, which can be U.S. dollar-denominated or non-U.S. dollar-denominated and may be currency hedged or unhedged.

Equity ETFs may include ETFs that invest in, among other things, common stock, preferred stock, rights and warrants to purchase common stock, depositary receipts, securities convertible into common and preferred stock and nonconvertible preferred stock, real estate-related securities or instruments and commodity-related securities or instruments. From time to time, the underlying ETFs may invest in shares of companies through initial public offerings ("IPOs").

Fixed-income ETFs may include ETFs that invest in, among other things, government obligations, corporate bonds and notes, including bonds and notes convertible into equity securities, mortgage-backed securities, asset-backed securities, floating or variable rate obligations (including senior secured floating rate loans or debt, and second lien or other subordinated or unsecured floating rate loans or debt), loan assignments and participations, inflation-indexed bonds, municipal obligations, zero coupon debt securities, bank loans, structured products (including, but not limited to, structured notes, credit linked notes and participation notes, or other instruments evidencing interests in special purpose vehicles, trusts, or other entities that hold or represent interests in fixed-income securities), below investment grade securities (commonly known as "junk bonds"), exchange traded notes ("ETNs"), cash or money market instruments. The average portfolio duration of the fixed-income portion of the Fund will vary based on the underlying ETFs' and BlackRock's forecast of interest rates and there are no limits regarding portfolio duration or average maturity. The underlying ETFs may invest in other pooled investment vehicles, including real estate investment trusts ("REITs") and partnership interests, including master limited partnerships ("MLPs").

The Fund's equity allocation may be further diversified by style (including both value and growth ETFs), market capitalization (including both large cap and small cap ETFs), globally (including domestic and international (including emerging market) ETFs), or other factors. The Fund's fixed-income allocation may be further diversified by sector (including government, corporate, agency, mortgage-backed securities, and other sectors), duration (a calculation of the average life of a bond which measures its price risk), credit quality (including non-investment grade debt or "junk bonds"), geographic location, or other factors. The percentage allocation to the various types of equity and fixed-income ETFs are determined at the discretion of the portfolio managers and can be changed to reflect the current market environment.

The underlying ETFs may invest in derivatives, including, but not limited to, interest rate swaps, total return swaps, credit default swaps, variance swaps, options, futures, options on futures and swaps and foreign currency transactions (including swaps), for hedging purposes, as well as to increase the return on their portfolio investments (although the underlying ETFs are not necessarily required to hedge any of their positions or to use derivatives).

The underlying ETFs may invest in indexed and inverse floating rate securities.

Principal Risks of Investing in the Fund

Risk is inherent in all investing. The value of your investment in the Fund, as well as the amount of return you receive on your investment, may fluctuate significantly from day to day and over time. You may lose part or all of your investment in the Fund or your investment may not perform as well as other similar investments. The following is a summary description of principal risks of investing in the Fund. Through its investments in underlying ETFs, the Fund

will be subject to the risks associated with the underlying ETFs' investments. Please see the "Details About the Funds" section of the Fund's prospectus for a description of these risks. The relative significance of each risk factor below may change over time and you should review each risk factor carefully.

■ **Investments in ETFs Risk** — The Fund's net asset value will change with changes in the value of the ETFs and other securities in which it invests. As with other investments, investments in other investment companies, including ETFs, are subject to market risk and, for non-index strategies, selection risk. In addition, if the Fund acquires shares of investment companies, including ETFs, shareholders bear both their proportionate share of expenses in the Fund (including management and advisory fees) and, indirectly, the expenses of the investment companies. To the extent the Fund is held by an affiliated fund, the ability of the Fund itself to hold other investment companies may be limited.

One ETF may buy the same securities that another ETF sells. If this happens, an investor in the Fund would indirectly bear the costs of these transactions without accomplishing the intended investment purpose. Certain of the ETFs may hold common portfolio securities, thereby reducing the diversification benefits of the Fund.

■ **Allocation Risk** — The Fund's ability to achieve its investment objective depends upon BlackRock's skill in determining the Fund's strategic asset class allocation and in selecting the best mix of underlying funds and other ETFs. There is a risk that BlackRock's evaluations and assumptions regarding asset classes or underlying funds and/or ETFs may be incorrect in view of actual market conditions.

■ **Conflicts of Interest Risk** — In managing the Fund, BlackRock will have authority to select and substitute ETFs. BlackRock may be subject to potential conflicts of interest in selecting ETFs because the fees paid to BFA, an affiliate of BlackRock and each underlying ETF's investment adviser, by some ETFs are higher than the fees paid by other ETFs. If an ETF holds interests in an affiliated fund, the Fund may be prohibited from purchasing shares of that ETF.

■ **Debt Securities Risk** — Debt securities, such as bonds, involve risks, such as credit risk, interest rate risk, credit risk, extension risk, and prepayment risk, each of which are described in detail below:

Credit Risk — Credit risk refers to the possibility that the issuer of a debt security (i.e., the borrower) will not be able to make payments of interest and principal when due. Changes in an issuer's credit rating or the market's perception of an issuer's creditworthiness may also affect the value of the Fund's investment in that issuer. The degree of credit risk depends on both the financial condition of the issuer and the terms of the obligation.

Interest Rate Risk — The market value of bonds and other fixed-income securities changes in response to interest rate changes and other factors. Interest rate risk is the risk that prices of bonds and other fixed-income securities will increase as interest rates fall and decrease as interest rates rise.

The Fund may be subject to a greater risk of rising interest rates due to the recent period of historically low interest rates. For example, if interest rates increase by 1%, assuming a current portfolio duration of ten years, and all other factors being equal, the value of the Fund's investments would be expected to decrease by 10%. (Duration is a measure of the price sensitivity of a debt security or portfolio of debt securities to relative changes in interest rates.) The magnitude of these fluctuations in the market price of bonds and other fixed-income securities is generally greater for those securities with longer maturities. Fluctuations in the market price of the Fund's investments will not affect interest income derived from instruments already owned by the Fund, but will be reflected in the Fund's net asset value. The Fund may lose money if short-term or long-term interest rates rise sharply in a manner not anticipated by Fund management.

To the extent the Fund invests in debt securities that may be prepaid at the option of the obligor (such as mortgage-backed securities), the sensitivity of such securities to changes in interest rates may increase (to the detriment of the Fund) when interest rates rise. Moreover, because rates on certain floating rate debt securities typically reset only periodically, changes in prevailing interest rates (and particularly sudden and significant changes) can be expected to cause some fluctuations in the net asset value of the Fund to the extent that it invests in floating rate debt securities.

These basic principles of bond prices also apply to U.S. Government securities. A security backed by the "full faith and credit" of the U.S. Government is guaranteed only as to its stated interest rate and face value at maturity, not its current market price. Just like other fixed-income securities, government-guaranteed securities will fluctuate in value when interest rates change.

A general rise in interest rates has the potential to cause investors to move out of fixed-income securities on a large scale, which may increase redemptions from funds that hold large amounts of fixed-income securities. Heavy redemptions could cause the Fund to sell assets at inopportune times or at a loss or depressed value and could hurt the Fund's performance.

Extension Risk — When interest rates rise, certain obligations will be paid off by the obligor more slowly than anticipated, causing the value of these obligations to fall.

Prepayment Risk — When interest rates fall, certain obligations will be paid off by the obligor more quickly than originally anticipated, and the Fund may have to invest the proceeds in securities with lower yields.

■ **Equity Securities Risk** — Stock markets are volatile. The price of equity securities fluctuates based on changes in a company’s financial condition and overall market and economic conditions.

■ **Market Risk and Selection Risk** — Market risk is the risk that one or more markets in which the Fund invests will go down in value, including the possibility that the markets will go down sharply and unpredictably. The value of a security or other asset may decline due to changes in general market conditions, economic trends or events that are not specifically related to the issuer of the security or other asset, or factors that affect a particular issuer or issuers, exchange, country, group of countries, region, market, industry, group of industries, sector or asset class. Local, regional or global events such as war, acts of terrorism, the spread of infectious illness or other public health issues like pandemics or epidemics, recessions, or other events could have a significant impact on the Fund and its investments. Selection risk is the risk that the securities selected by Fund management will underperform the markets, the relevant indices or the securities selected by other funds with similar investment objectives and investment strategies. This means you may lose money.

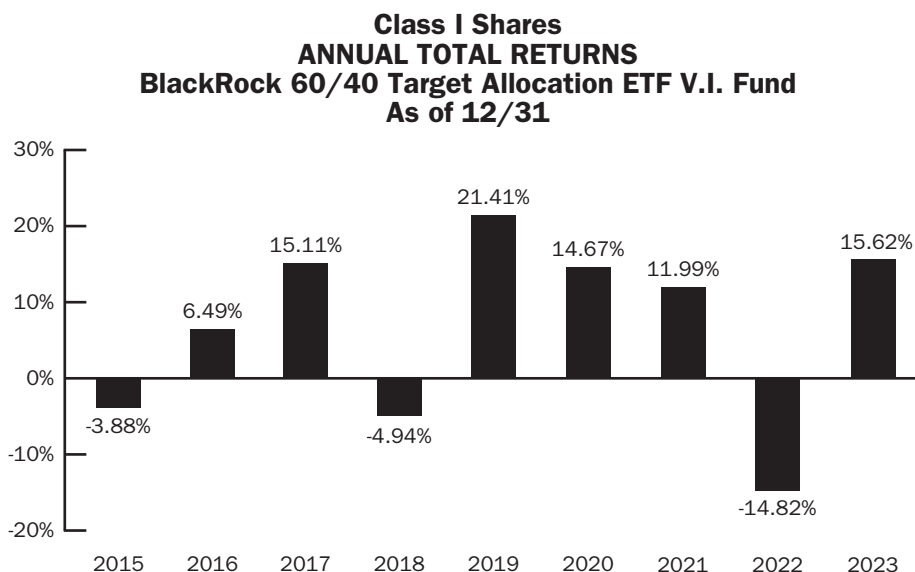
An outbreak of an infectious coronavirus (COVID-19) that was first detected in December 2019 developed into a global pandemic that has resulted in numerous disruptions in the market and has had significant economic impact leaving general concern and uncertainty. Although vaccines have been developed and approved for use by various governments, the duration of the pandemic and its effects cannot be predicted with certainty. The impact of this coronavirus, and other epidemics and pandemics that may arise in the future, could affect the economies of many nations, individual companies and the market in general ways that cannot necessarily be foreseen at the present time.

■ **Risk of Investing in the United States** — Certain changes in the U.S. economy, such as when the U.S. economy weakens or when its financial markets decline, may have an adverse effect on the securities to which the Fund has exposure.

Performance Information

Effective May 1, 2019, the Fund changed its name and investment strategies. Performance for the periods prior to May 1, 2019 shown below is based on the investment strategies utilized by the Fund at that time under the name “BlackRock iShares® Dynamic Allocation V.I. Fund.”

The information shows you how the Fund’s performance has varied year by year and provides some indication of the risks of investing in the Fund. The table compares the Fund’s performance to that of the 60% MSCI All Country World Index/40% Bloomberg U.S. Aggregate Bond Index, the MSCI All Country World Index and the Bloomberg U.S. Aggregate Bond Index, which are relevant to the Fund because they have characteristics similar to the Fund’s investment strategies. The bar chart and table do not reflect separate account fees and expenses. If they did, returns would be less than those shown. To the extent that dividends and distributions have been paid by the Fund, the performance information for the Fund in the chart and table assumes reinvestment of the dividends and distributions. As with all such investments, past performance is not an indication of future results. If the Fund’s investment manager and its affiliates had not waived or reimbursed certain Fund expenses during these periods, the Fund’s returns would have been lower.



During the periods shown in the bar chart, the highest return for a quarter was 12.79% (quarter ended June 30, 2020) and the lowest return for a quarter was –12.00% (quarter ended March 31, 2020).

For the periods ended 12/31/23 Average Annual Total Returns	1 Year	5 Years	Since Inception (April 30, 2014)
BlackRock 60/40 Target Allocation ETF V.I. Fund: Class I Shares	15.62%	8.95%	5.90%
BlackRock 60/40 Target Allocation ETF V.I. Fund: Class III Shares	15.32%	8.69%	5.64%
60% MSCI All Country World Index/40% Bloomberg U.S. Aggregate Bond Index (Reflects no deduction for fees, expenses or taxes)	15.37%	7.67%	5.62%
MSCI All Country World Index (Reflects no deduction for fees, expenses or taxes)	22.20%	11.72%	7.98%
Bloomberg U.S. Aggregate Bond Index (Reflects no deduction for fees, expenses or taxes)	5.53%	1.10%	1.59%

Investment Manager

The Fund’s investment manager is BlackRock Advisors, LLC (previously defined as “BlackRock”).

Portfolio Managers

Portfolio Manager	Portfolio Manager of the Fund Since	Title
Paul Whitehead	2023	Managing Director of BlackRock, Inc.
Michael Gates, CFA	2016	Managing Director of BlackRock, Inc.
Greg Savage, CFA	2018	Managing Director of BlackRock, Inc.

Purchase and Sale of Fund Shares

Shares of the Fund currently are sold either directly or indirectly (through other variable insurance funds) to separate accounts of insurance companies (the “Insurance Companies”), and certain accounts administered by the Insurance Companies (the “Accounts”) to fund benefits under the Contracts issued by the Insurance Companies and other Variable Insurance Trusts. Shares of the Fund may be purchased or sold each day the New York Stock Exchange is open.

The Fund does not have any initial or subsequent investment minimums. However, your Contract may require certain investment minimums. See your Contract prospectus for more information.

Tax Information

Distributions made by the Fund to an Account, and exchanges and redemptions of Fund shares made by an Account, ordinarily do not cause the corresponding Contract holder to recognize income or gain for U.S. federal income tax purposes. See the Contract prospectus for information regarding the U.S. federal income tax treatment of the distributions to Accounts and the holders of the Contracts.

Payments to Broker/Dealers and Other Financial Intermediaries

BlackRock and its affiliates may make payments relating to distribution and sales support activities to the Insurance Companies and other financial intermediaries for the sale of Fund shares and related services. These payments may create a conflict of interest by influencing the Insurance Company or other financial intermediary and your individual financial professional to recommend the Fund over another investment. Visit your Insurance Company’s website, which may have more information.

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BlackRock

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