

American Freedom Liberty 5

A fixed-indexed annuity with a market value adjustment
from MassMutual Ascend Life Insurance Company





Confidently plan for your future with the American Freedom Liberty 5

When you envision a future that fulfills you, maybe you see yourself traveling, cooking, spending time with family or discovering a new hobby. Whatever it is, our goal is to help you navigate your future with confidence.

THE AMERICAN FREEDOM LIBERTY 5 FIXED-INDEXED ANNUITY OFFERS:



Growth opportunity

You can allocate your money to interest strategies that may help you accumulate additional savings.



Protection from loss

Regardless of market conditions, you won't lose the money you contribute to your annuity unless you take a withdrawal or surrender your annuity during its early withdrawal charge period.



Guaranteed income

When you're ready to turn the money you've accumulated in your annuity into guaranteed income, you can select from a variety of options, including payments that will last for the rest of your life.

Annuity basics

An annuity is a financial product that's designed to protect and grow your money, and then provide a stream of guaranteed income.

HERE'S HOW IT WORKS:



You purchase an annuity by making a payment to an insurance company.



Your annuity can grow in value over time.



When you're ready to start receiving income, your annuity can be turned into a steady stream of payments.



Other than pensions,
annuities are the only products that
provide guaranteed lifetime income.

Choose how you want your money to grow

A fixed-indexed annuity protects your principal, locks in your earnings and guarantees your annuity values will not fall below a minimum value.

Principal protection: Offers the unique opportunity to earn interest based on market performance without the risk of market loss. The money you contribute to your annuity cannot be lost unless you take a withdrawal or surrender your annuity during the early withdrawal charge period.

Locked-in earnings: Any interest credited to your annuity is locked in and protected from market declines. This means if your account value increases, you can rest assured it will not decrease due to market performance.

Guaranteed minimum surrender value: The amount payable to you if you surrender your annuity will never be less than the Guaranteed Minimum Surrender Value (GMSV). The GMSV includes interest that is credited daily at a fixed rate set out in your annuity. This means in certain situations when your annuity earns no interest due to flat or declining index performance, the amount payable upon surrender may still be greater than the amount of money you contributed to your annuity.



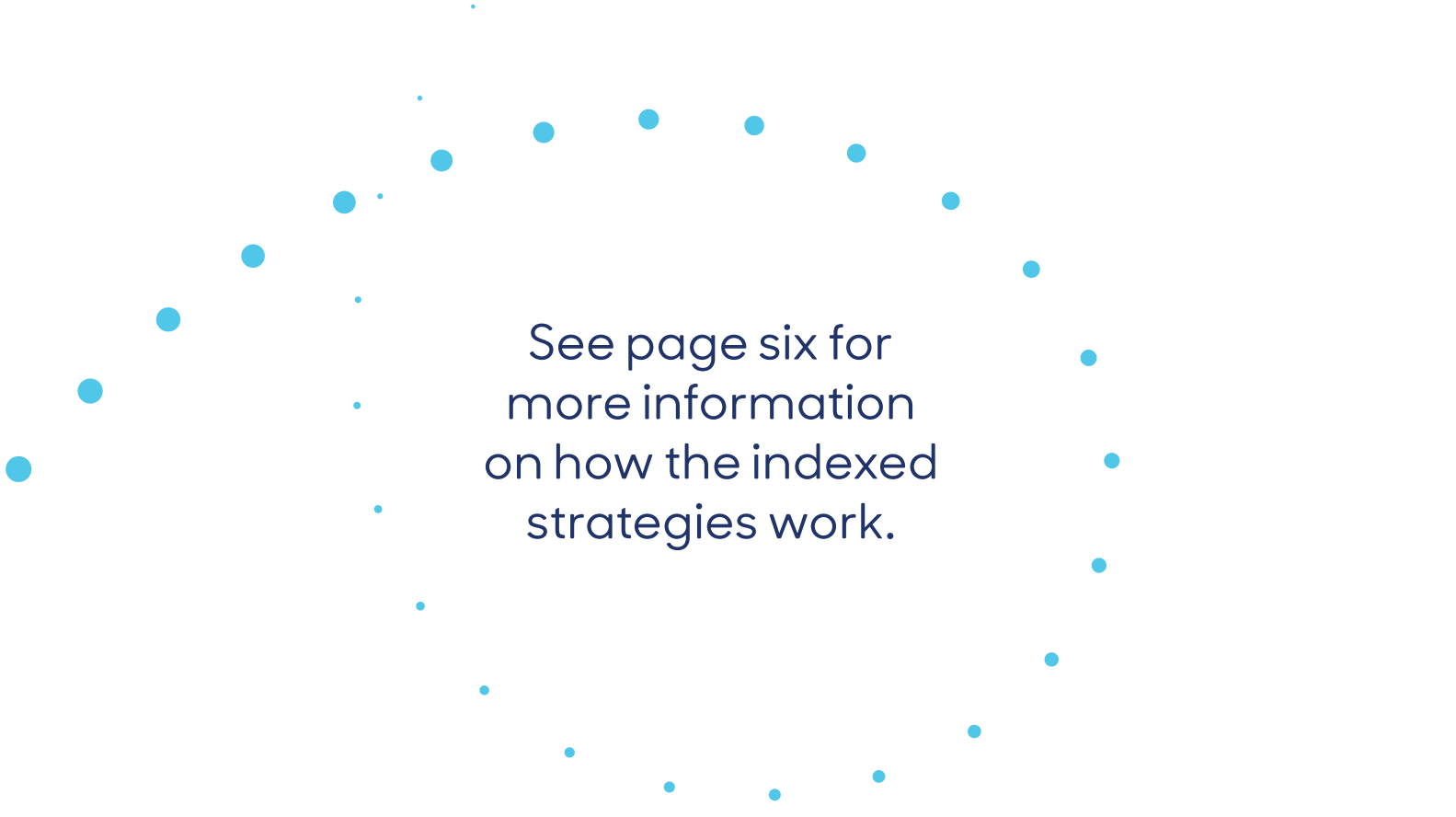
Fixed-indexed annuities offer multiple interest strategies to help you build your savings.

A fixed-indexed annuity has two phases – an accumulation phase and an income phase. During the accumulation phase, the money you contribute to your annuity can earn interest tied to positive market performance. During the income phase, the money you've earned in your annuity can be turned into a stream of income payments.

We offer two types of strategies during the accumulation phase:

- A **declared rate strategy** allows you to grow your money at a fixed interest rate that is set at the beginning of each term.
- **Indexed strategies** offer you the unique opportunity to earn interest based, in part, on market performance without the risk of market loss.

You have the flexibility to choose the strategies that are right for you. We know your needs may change over time, so you can revisit your strategy selections at the end of each term.



See page six for
more information
on how the indexed
strategies work.

Indexed strategies offer growth opportunity that's tied to market performance

Money in an indexed strategy earns interest based on positive market performance. Interest is credited on the last day of each term year and is **guaranteed to never be less than 0%**. Term length varies between strategies. See page 10 for options with the American Freedom Liberty[®] 5.

The American Freedom Liberty[®] 5 offers point-to-point indexed strategies, some with cap lock.

A **point-to-point strategy** compares the closing value of an index – such as the S&P 500[®] – at the end of a term to the closing value on the first day of the term. If the result is positive, interest is credited. If the result is negative or flat, the credited interest rate is 0%.

A **point-to-point with cap lock strategy** locks in your cap – or your maximum earning potential – for the duration of the cap lock period.

The amount of interest credited at the end of the term year is limited by either a cap or trigger rate.

- A **cap** is the maximum interest rate that will be credited for a term year.
- A **trigger rate** is the interest rate that will be credited for a term when index performance is positive or level for that term.

The American Freedom Liberty 5 annuity offers a bailout feature that allows you to withdraw your money from an indexed strategy at the end of a term without incurring an early withdrawal charge if its cap or trigger rate for the renewal term is less than the bailout rate or if the indexed strategy will not be available for the next term.

Any interest credited to your account value is locked in at the end of each term year and cannot be lost due to future market performance.

Indexed strategies also keep your money protected from market declines

Not only do indexed strategies provide the opportunity to earn interest based on market growth, but they keep your money protected in the event of market declines.

When index performance is positive, interest is credited to your annuity and it's locked in. This means, your annuity cannot lose value due to future market performance.

On the other hand, if index performance is negative, you won't lose money. But, you can still earn interest during future terms. Let's take a look at how it works.



YEAR 1

Index performance is positive.

Your annuity earns interest that is locked in and protected from future index declines.

YEAR 2

Index performance is negative.

Your principal and earnings remain protected, leaving your account value unchanged.

YEAR 3

The index begins to recover.

Your annuity earns interest, even though the index has not made up its previous loss.

The example above is for illustrative purposes only. It does not reflect actual index performance.

But wait, there's more

The American Freedom Liberty 5 offers these additional benefits to help you confidently navigate your future.



Tax treatment that allows faster growth

You don't pay taxes on the interest your annuity earns until you start receiving payments or take a withdrawal. That means your money can grow at a faster rate than it would in a taxable product.



Leave a legacy for your loved ones

As you're planning for the future, you probably want to know what will happen to your money when you're gone. With the American Freedom Liberty 5, any death benefit is paid directly to your beneficiaries, which allows them to receive your financial legacy without the cost and delays of probate.

It's important to consider your liquidity needs.

The American Freedom Liberty 5 is intended to be a long-term product. However, you will have access to a portion of your money each year with penalty-free withdrawals.

During the first contract year, you may withdraw up to 10% of your purchase payments. After the first contract year, 10% of the account value on the most recent contract anniversary may be withdrawn.

It's important to note withdrawals in excess of this amount may be subject to early withdrawal charges and a market value adjustment. Early withdrawal charges and market value adjustments end after five years.

This information is not intended or written to be used as legal or tax advice. It was written solely to provide general information and support the sale of annuity products. You should seek advice on legal or tax questions based on your particular circumstances from an attorney or tax advisor.

For qualified contracts, the full amount withdrawn is generally subject to income tax. For other contracts, only the gains are subject to income tax. If you are under age 59½, the taxable amount is also generally subject to a 10% federal penalty tax.

MassMutual Ascend

Taking financial futures above and beyond

At MassMutual Ascend, we are committed to going above and beyond – so when it comes to your financial future, the impossible feels possible.

As a leading provider of annuities, the status quo isn't a status we ever want. We'll always be in pursuit of better.

Our "A++" rating by AM Best follows more than 40 consecutive years of an "A" or higher rating. This means you can have confidence knowing we'll be here when you need us. We are a wholly owned subsidiary of MassMutual, one of the largest life insurance companies in the U.S., founded in 1851.

And finally, everything we do is rooted in a culture of service. From our people to our technology, we strive to always provide you with what you need, when you need it so you can navigate your future with confidence.

Learn more at [MassMutualAscend.com](https://www.massmutualascend.com).

American Freedom Liberty 5 features

| | |
|---------------------------------|---|
| ISSUE AGES | <p>Qualified: 0–89 Inherited IRA: 0–75 Non-qualified: 0–89 Inherited non-qualified: 0–75 <i>Issue ages may vary by state.</i></p> |
| PURCHASE PAYMENTS | <p>You can purchase this annuity with an initial purchase payment of \$25,000 or more. You can add to your annuity during the first contract year with additional purchase payments of at least \$2,000.</p> |
| FEES | <p>There are no upfront charges. All your money goes to work for you.</p> |
| INTEREST STRATEGIES | <ul style="list-style-type: none"> • Declared rate • S&P 500® 1-year point-to-point with cap • S&P 500® 1-year point-to-point with performance trigger • S&P 500® 5-year cap lock annual point-to-point • iShares U.S. Real Estate 1-year point-to-point with cap • iShares MSCI EAFE 1-year point-to-point with cap • First Trust Barclays Edge Index 1-year point-to-point with cap • First Trust Barclays Edge Index 1-year point-to-point with 5-year cap lock <p><i>Available strategies may vary by state and by distribution.</i></p> |
| TERM | <ul style="list-style-type: none"> • A term is the period over which interest is calculated for an indexed strategy. Indexed strategies available on this product offer either one-year or five-year terms. You may reallocate funds among available strategies at the end of each one-year or five-year term. • The S&P 500 5-Year Cap Lock Annual Point-To-Point strategy has a five-year term. The cap is locked in for the entire five-year term. This strategy may only be selected during the first contract year. At the end of the five-year term, funds held in the strategy are automatically applied to the S&P 500 1-year strategy, unless you elect otherwise. • The First Trust Barclays Edge Index 1-Year Point-To-Point with 5-Year Cap Lock strategy has five one-year terms. The cap is locked in for all five one-year terms. This strategy may only be selected during the first contract year. At the end of each one-year term, the ending value of this strategy may be applied to a new term of this strategy. No other amounts may be applied. At the end of each one-year term, you may also reallocate funds held in this strategy among other available strategies. Funds held in the strategy at the end of the fifth one-year term are automatically applied to the First Trust Barclays Edge Index 1-year point-to-point with cap strategy unless you elect otherwise. • All other strategies have one-year terms. • Interest, if any, is credited on the last day of each term year on all indexed strategies. |
| BAILOUT FEATURE | <p>We will waive any early withdrawal charges on funds you withdraw from a one-year indexed strategy at the end of a term if the renewal cap or trigger rate for that strategy falls below its bailout rate. If the bailout feature is triggered, we will send you a letter and give you 30 days to withdraw the money from that strategy without incurring an early withdrawal charge.</p> |
| PENALTY-FREE WITHDRAWALS | <p>During the first contract year, you may withdraw up to 10% of your purchase payments. After the first contract year, 10% of the account value on the most recent contract anniversary may be withdrawn. Amounts withdrawn in excess of the penalty-free withdrawal allowance may be subject to early withdrawal charges and a market value adjustment.</p> |

| EARLY WITHDRAWAL CHARGES | <p>During the first five contract years, an early withdrawal charge starting at 9% is applied to surrenders and withdrawals that exceed the 10% penalty-free amount. All charges end after five years.</p> <table border="1"> <thead> <tr> <th>Contract year</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6+</th> </tr> </thead> <tbody> <tr> <td>Early withdrawal charge</td> <td>9%</td> <td>8%</td> <td>7%</td> <td>6%</td> <td>5%</td> <td>0%</td> </tr> </tbody> </table> | Contract year | 1 | 2 | 3 | 4 | 5 | 6+ | Early withdrawal charge | 9% | 8% | 7% | 6% | 5% | 0% |
|---|---|---------------|----|----|----|----|---|----|-------------------------|----|----|----|----|----|----|
| Contract year | 1 | 2 | 3 | 4 | 5 | 6+ | | | | | | | | | |
| Early withdrawal charge | 9% | 8% | 7% | 6% | 5% | 0% | | | | | | | | | |
| MARKET VALUE ADJUSTMENT | <p>A market value adjustment (MVA) will apply if you surrender your contract during the first five years. The MVA is calculated by comparing the value of a specific index at the time we receive each purchase payment to the value of the index when you choose to surrender your contract. This can result in an increase to your surrender value during a period of decreasing rates, or a decrease to your surrender value during a period of increasing rates. The MVA will also apply to withdrawals in excess of the 10% free-withdrawal allowance during the first five contract years.</p> | | | | | | | | | | | | | | |
| GUARANTEED MINIMUM SURRENDER VALUE | <p>The amount payable to you if you surrender your contract will never be less than the Guaranteed Minimum Surrender Value (GMSV). The GMSV is based on 100% of your purchase payments, plus interest credited daily at a minimum guaranteed rate, minus the account value multiplied by the applicable early withdrawal charge rate. Ask your financial professional for the minimum guaranteed rate that will apply to your contract.</p> <p>This means, in certain situations when your contract earns no interest due to flat or declining index performance, the amount payable upon surrender may still be greater than the amount of money you contributed to your annuity. It's important to remember the GMSV is reduced by prior withdrawals, including applicable early withdrawal charges and market value adjustments.</p> <p>The GMSV will not be less than the minimum values required by the state in which your annuity is issued.</p> | | | | | | | | | | | | | | |
| INCOME PAYOUT OPTIONS | <p>Fixed period: You receive income benefit payments for a fixed period of time that you select.</p> <p>Life or life with a minimum fixed period: You receive income benefit payments for life. If you select a minimum fixed period of time and pass away before the end of the period, the remaining income benefit payments are paid to the person you designate.</p> <p>Joint and one-half survivor: Income benefit payments are guaranteed for your life and the life of a designated joint annuitant. If you are survived by the joint annuitant, he or she will receive 50% of the income benefit payment for life.</p> | | | | | | | | | | | | | | |
| INCLUDED WAIVER RIDERS | <p>Extended care waiver rider: If you are confined to a nursing home or long-term care facility, then after the first contract year you have the option to withdraw up to 100% of the account value without incurring an early withdrawal charge or MVA. The confinement must have begun after the contract effective date and must continue for at least 90 consecutive days after the later of the first contract anniversary or the first date of confinement.</p> <p>Terminal illness waiver rider: If you are diagnosed with a terminal illness, then after the first contract year you have the option to withdraw up to 100% of the account value without incurring an early withdrawal charge or MVA. The first diagnosis of terminal illness must be after the contract effective date. A terminal illness is defined as an illness having a prognosis of survival of 12 months or less, or any longer period as required by state law.</p> <p><i>Extended care and terminal illness waiver riders are not available in Massachusetts. In California, the Extended Care Waiver Rider has been replaced with the Waiver of Early Withdrawal Charges for Facility Care or Home Care or Community-Based Services Rider, which provides for a waiver of early withdrawal charges under an expanded variety of circumstances.</i></p> | | | | | | | | | | | | | | |



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