MassMutual Ascend

Index Summit® 6 Pro

OVERVIEW

ISSUE AGES	**0-80 (qualified); 0-80 (non-qualified); 0-75 (inherited IRA); 0-75 (inherited non-qualified)** Issue age is the owner's age at last birthday. For joint owners, the oldest age will be used as the issue age. If the owner is a non-natural person, the age of the eldest annuitant will be treated as the age of the owner for all purposes under this contract.
PURCHASE PAYMENTS	This product accepts a single purchase payment for the following tax qualifications: • Non-qualified and inherited non-qualified • IRA (traditional, Roth, SEP, SIMPLE, and inherited) • 401(a) (including 401(k) traditional and Roth) • 403(b) (traditional and Roth) • Governmental 457(b) (traditional and Roth) Additional purchase payments allowed during the first two months of the contract only. Terms begin only on the 6th and 20th of each month. Purchase payments received prior to the beginning of a term will be held in the purchase payment account until the beginning of the next term. Additional purchase payments have their own crediting terms. **Minimum:** Initial purchase payment: $25,000; additional purchase payments: $10,000 **Maximum:** $1 million for ages 0-80
FEES	A fee is deducted from each strategy on a daily basis and compounds to an effective annual rate of 1.25%. The fee for any given day is calculated as a percentage of the indexed strategy's then remaining investment base and is deducted from that investment base.
ACCOUNT VALUE	The account value equals the sum of the following values: **Purchase payment account value:** The purchase payment account value equals the purchase payments received, minus any applicable premium taxes or other applicable taxes, minus any withdrawals and applicable early withdrawal charges, plus any interest credited. **Indexed strategy value:** At the end of a term, unless a performance lock election has been made, the value of an indexed strategy is equal to: • the investment base at the end of the term; **and either** • **plus** any increase in the index for the term, adjusted for the applicable upside potential factor(s) (or for the dual performance trigger strategy, any fall in the index that does not exceed the buffer, adjusted for the applicable trigger rate); **or** • **minus** any in the index for the term, adjusted for the applicable downside protection factor. In this formula, the investment base at the end of the term is equal to the amount applied to the strategy at the start of that term, reduced by daily charges, and reduced proportionally for each withdrawal and related early withdrawal charge taken during that term. After we calculate the investment base at the end of the term, we calculate any increase or decrease for a change in the index over that term. Any increase for the term is subject to the cap, upside participation rate, trigger rate, or in some cases, an upside participation rate and cap for that term. Any decrease for the term is subject to the floor, buffer or downside participation rate.

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INDEXED STRATEGIES

Upon issue, the owner selects from indexed strategies. At the end of each term, the owner may have the opportunity to reallocate funds among the available strategies. To reallocate funds, the owner must submit a strategy selection form prior to the end of that term. Unless the owner reallocates funds at the end of a term, funds are automatically applied to the same strategy (if available) for the next term. See product prospectus for more information on default strategy reallocations. Available strategies are subject to change at any time for new sales. Indexed strategies include:

S&P 500®

- 1-Year 50% Downside Participation Rate with Cap†
- 1-Year 50% Downside Participation Rate with Upside Participation Rate†
- 1-Year 10% Buffer with Cap†
- 1-Year 10% Buffer with 6-Year Cap Control*†
- 1-Year 10% Buffer with Performance Trigger
- 1-Year 10% Buffer with Dual Performance Trigger
- 1-Year 20% Buffer with Cap†
- 1-Year 20% Buffer with 6-Year Cap Control*†
- 1-Year 20% Buffer with Performance Trigger
- 1-Year -10% Floor with Cap†
- 1-Year 0% Floor with Cap
- 2-Year 50% Downside Participation Rate with Cap†
- 2-Year 50% Downside Participation Rate with Upside Participation Rate†
- 3-Year 10% Buffer with Upside Participation Rate & Cap†
- 3-Year 20% Buffer with Upside Participation Rate & Cap†
- 6-Year 10% Buffer with Upside Participation Rate & Cap†
- 6-Year 20% Buffer with Upside Participation Rate & Cap†

Russell 2000

- 1-Year 10% Buffer with Cap†
- 1-Year 10% Buffer with 6-Year Cap Control*†
- 1-Year 20% Buffer with Cap†
- 1-Year 20% Buffer with 6-Year Cap Control*†
- 3-Year 10% Buffer with Upside Participation Rate & Cap†
- 3-Year 20% Buffer with Upside Participation Rate & Cap†
- 6-Year 10% Buffer with Upside Participation Rate & Cap†
- 6-Year 20% Buffer with Upside Participation Rate & Cap†

iShares MSCI EAFE ETF

- 1-Year 50% Downside Participation Rate with Upside Participation Rate
- 1-Year -10% Floor with Cap

iShares U.S. Real Estate ETF

- 1-Year 50% Downside Participation Rate with Upside Participation Rate
- 1-Year -10% Floor with Cap

SPDR® Gold Shares ETF

- 1-Year -10% Floor with Cap

First Trust Barclays Edge Index

- 1-Year 50% Downside Participation Rate with Upside Participation Rate†
- 1-Year 10% Buffer with Upside Participation Rate†

*See Cap Control section below for more information.

†Performance lock available. See performance lock section below for more information.

Strategies linked to the S&P 500® Index (SPX), the Russell 2000 Index (RTY), the iShares MSCI EAFE ETF (EFA), the iShares U.S. Real Estate ETF (IYR), and the SPDR Gold Shares ETF (GLD) provide returns based, in part, on the change in the price of the Index or ETF. The price change does not include dividends that might be paid on the underlying investments of the Index or ETF.

INDEXED STRATEGIES (CONT.)

Strategies linked to the First Trust Barclays Edge Index (FTEDGE7) provide returns based, in part, on the change in net asset value of the underlying investments of the Index. The net asset value change includes dividends that might be paid on the underlying investments of the Index.

Not all strategies available with all indexes and ETFs.

The following strategies are only available for a term that starts in the first contract year: S&P 500 1-Year 10% Buffer with 6-Year Cap Control, S&P 500 1-Year 20% Buffer with 6-Year Cap Control, S&P 500 6-Year 10% Buffer with Upside Participation Rate & Cap, S&P 500 6-Year 20% Buffer with Upside Participation Rate & Cap, Russell 2000 1-Year 10% Buffer with 6-Year Cap Control, Russell 2000 1-Year 20% Buffer with 6-Year Cap Control, Russell 2000 6-Year 10% Buffer with Upside Participation Rate & Cap and Russell 2000 6-Year 20% Buffer with Upside Participation Rate & Cap.

The following strategies are only available for a term that starts in the first four contract years: S&P 500 3-Year 10% Buffer with Upside Participation Rate & Cap, S&P 500 3-Year 20% Buffer with Upside Participation Rate & Cap, Russell 2000 3-Year 10% Buffer with Upside Participation Rate & Cap and Russell 2000 3-Year 20% Buffer with Upside Participation Rate & Cap.

For information on indexed strategy values before the end of a term, please see the product prospectus at **MassMutualAscend.com/RILArates.**

UPSIDE POTENTIAL FACTORS: CAPS, UPSIDE PARTICIPATION RATES AND TRIGGER RATES

The value of an indexed strategy will increase if there is a positive change in the applicable index value during a term, and in some cases, when there is a negative change in the applicable index value during a term. Indexed strategy value increases are subject to the following upside potential factors: caps, upside participation rates, trigger rates, and in some cases, an upside participation rate and cap.

A cap is the largest positive index change at the end of a term that is taken into account to determine a gain.

An upside participation rate is the percentage of any positive index change at the end of a term that is taken into account to determine a gain.

For strategies with an upside participation rate and cap, any positive index change for the term is first subject to an upside participation rate, and then the result is subject to a cap. For some terms, this strategy may be uncapped, which means that the positive index change for the term would only be subject to the applicable upside participation rate.

A trigger rate is the rate of return used to determine a gain at the end of a term. There are two types of trigger rate strategies: performance trigger and dual performance trigger.

For strategies with a performance trigger, the trigger rate is credited when index performance is positive or level for the term. For strategies with a dual performance trigger, the trigger rate is credited when index performance is positive, level or when the index loss does not exceed the buffer for the term.

Before the end of a term, caps, upside participation rates, trigger rates and index changes are reflected in the option values used to calculate increases in strategy values. We can change the cap, upside participation rate or trigger rate for each new term of an indexed strategy.

DOWNSIDE PROTECTION FACTORS: FLOORS, BUFFERS AND DOWNSIDE PARTICIPATION RATES (CONT)

Any loss for a term of an indexed strategy is subject to one of three limiting factors: a floor, buffer or a downside participation rate.

A floor is the largest negative index change used to determine a loss each term. -10% floor and 0% floor strategies are available. The -10% floor indexed strategies provide protection against index losses in excess of -10% at the end of each term, meaning any decrease during a term is limited to -10%. The 0% floor indexed strategies provide protection against all index losses at the end of each term.

A buffer is the portion of a negative index change at the end of a term that is disregarded to determine a loss. 10% buffer and 20% buffer strategies are available. The 10% buffer indexed strategies provide protection against the first 10% of index losses at the end of each term, and 20% buffer indexed strategies provide protection against the first 20% of index losses at the end of each term. Clients assume any losses in excess of the buffer.

A downside participation rate is the percentage of any negative index change at the end of a term that is taken into account to determine a loss. The 50% downside participation rate indexed strategies provide protection against 50% of index losses at the end of each term. Clients assume the other 50% of index losses.

Before the end of a term, floors, buffers and downside participation rates are reflected in the option values used to calculate decreases in strategy values. We cannot change the floors, buffers, or downside participation rates for any indexed strategy that we currently offer.

CAP CONTROL

Cap Control is a feature on select indexed strategies that limits how much cap rates for renewal terms can increase or decrease from year to year. Cap Control indexed strategies available on this product have six one-year terms. The Cap Control guarantees that cap rates for renewal terms will be set within a defined range of the cap for the initial term.

Clients can only allocate to a Cap Control indexed strategy in the first contract year, and they must remain allocated to the Cap Control indexed strategy for all six one-year terms. They cannot reallocate funds or transfer account value already held in other strategies into a Cap Control indexed strategy. Performance lock is available during each term of a Cap Control indexed strategy, but clients cannot reallocate to a different strategy after a performance lock election before the end of the sixth one-year term. Funds held in the strategy at the end of the sixth one-year term will default-renew into a similar one-year strategy, but without the Cap Control guarantee.

PERFORMANCE LOCK

Performance lock is a feature that allows clients to lock in indexed strategy gains and limit further losses for a term. Performance lock is an election to lock in the daily value percentage through the end of the term. A performance lock election can take effect on the first market close following our receipt of a request in good order. Once we receive a request in good order, a performance lock election for a term cannot be revoked or changed and clients will not be able to reallocate a performance locked one-year indexed strategy until the end of the term.

If a client makes a performance lock election for a Cap Control strategy, they cannot reallocate to a different strategy after a performance lock election before the end of the sixth one-year term.

If a client makes a performance lock election for a 2-year, 3-year, or 6-year strategy, the term will always end on the next anniversary of the term start date even if it otherwise would have continued for one or more additional years.

On a specific request, a client may delay their performance lock election to the second market close following our receipt of the request in good order. A client will not be able to know whether the locked daily value percentage will be lower or higher on that second market close.

WITHDRAWALS

Withdrawals are allowed any time prior to the annuity payout initiation date. All withdrawals are subject to IRS regulations and early withdrawal charges. Withdrawals will be taken first from the purchase payment account, then proportionally from indexed strategies having the shortest term.

Minimum withdrawal: $500;
Minimum account value following withdrawal: $5,000

PENALTY-FREE WITHDRAWAL ALLOWANCE

During the first contract year, 10% of the purchase payments may be withdrawn without an early withdrawal charge. After the first contract year, 10% of the account value on the most recent contract anniversary may be withdrawn without an early withdrawal charge. The sum of all previous withdrawals during the same contract year will be subtracted to determine the amount available. This free withdrawal allowance is not cumulative, and unused amounts do not carry over to the next contract year. Withdrawals from an annuity contract may have tax consequences.

EARLY WITHDRAWAL CHARGE

An early withdrawal charge is applied to surrenders and withdrawals that exceed the penalty-free withdrawal allowance during the first six contract years.

CONTRACT YEAR	1	2	3	4	5	6	7+
EARLY WITHDRAWAL CHARGE	9%	8%	7%	6%	5%	4%	0%

EXTENDED CARE WAIVER RIDER

To help ease the strain of certain unforeseen events, an extended care waiver is available for no additional charge. If the owner is confined to a nursing home or long-term care facility, then after the first contract year up to 100% of the account value may be withdrawn 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 on confinement.

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.

TERMINAL ILLNESS WAIVER RIDER

Provided that the diagnosis is rendered after the contract effective date, up to 100% of the account value can be withdrawn without deduction of an early withdrawal charge if the owner or joint owner is diagnosed by a physician as having a terminal illness with a prognosis of 12 months or less.

This waiver may be used only once. Not available in Massachusetts.

SURRENDER VALUE

The surrender value equals the account value, less any applicable early withdrawal charges.

PAYOUT OPTIONS

The following options are available following the first contract year: fixed period payout, life payout, life payout with payments for at least a fixed period, and joint and one-half survivor payout.

DEATH BENEFIT VALUE

The death benefit amount is the greater of the account value or the purchase payments, reduced proportionally for all withdrawals, but not including amounts applied to pay early withdrawal charges. In either case, it is reduced by premium tax or other taxes not previously deducted.

PREMIUM TAX

If the owner elects to take an annuity payout benefit, premium tax will be deducted if the owner lives in a state that has a premium tax on annuitizations.

If a death benefit is paid under a payout option, premium tax will be deducted if the beneficiary lives in a state that has a premium tax on annuitizations.

STATE VARIATIONS

Product availability, strategy availability and strategy feature availability may vary by state and by distribution. For information specific to your state, please refer to the Product Rate Sheet.

Annuities are intended to be long-term products and may not be suitable for all investors. Withdrawals from an annuity contract may have tax consequences.

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