## ... MassMutual Ascend

## Index Protector 5 MVA

### OVERVIEW

ISSUE	
AGES	

0-89 (qualified); 0-89 (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 non-qualified, traditional 403(b), Roth 403(b), traditional IRA, Roth IRA, SEP IRA, SIMPLE IRA, Inherited IRA, Inherited non-qualified, 401(a) and 457 plan funds. 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 interest crediting terms.

**Minimum:** Initial purchase payment: \$50,000; additional purchase payments: \$25,000

**Maximum:** \$2 million for ages 0-75; \$1.5 million for ages 76-80, \$1 million for ages 81+

Maximums apply to the total purchase payments made to all annuities from MassMutual Ascend with the same owners or the same annuitants.

# 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 other long-term care facility after the completion of the first contract year for at least 90 consecutive days, any negative MVAs may be waived upon surrender or annuitization of the contract.

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 more than one year after the contract effective date, the owner may surrender or annuitize the contract without incurring a negative MVA 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 on Massachusetts.

#### INTEREST STRATEGIES

Upon issue, the owner selects from two types of interest strategies: a declared rate strategy and indexed strategies. At the end of each term, the owner has the opportunity to transfer funds among the available interest strategies. To transfer funds, the owner must submit a strategy selection form prior to the end of that term. Unless the owner transfers funds at the end of a one-year term, funds are automatically applied to the same strategy for the next one-year term. At the end of the five-year term, funds held in the 5-year declared rate strategy are automatically applied to the 1-year declared rate strategy, unless the owner elects otherwise. Available strategies are subject to change at any time for new sales.

#### **TERM**

- The five-year declared rate strategy has a five-year term. The rate is locked in for the entire five-year term. This strategy may only be selected during the first contract year.
- All other strategies have a one-year term.
- With all indexed strategies, interest is credited annually on the last day of each term year.
- You can change your strategy allocations at the end of each one-year term.
   At the end of the term, funds held in the five-year declared rate strategy will automatically reallocate to the one-year declared rate strategy, unless you select otherwise.

#### **INTEREST RATES**

**Purchase payment account interest rate:** Interest is credited daily on amounts held in this account based on an applicable interest rate. This interest rate is guaranteed to be at least equal to the guaranteed minimum interest rate set out in the contract.

**Declared interest rate:** Interest is credited daily on amounts held under a declared rate strategy based on the applicable declared interest rate. The current declared interest rate will not change during the strategy's term and is guaranteed to never be below the guaranteed minimum interest rate set out in the contract.

**Indexed interest rate:** An indexed interest rate is determined, in part, by the performance of the S&P 500®, S&P 500 Risk Control 10% Index (SPXAV10P), S&P U.S. Retiree Spending Index (SPRETIRE), iShares U.S. Real Estate ETF (IYR) or the iShares MSCI EAFE ETF (EFA). Indexed interest is credited only on the last day of each term. Indexed strategies include:

- S&P 500® 1-year point-to-point with cap
- S&P 500 Risk Control 1-year point-to-point with participation rate
- S&P U.S. Retiree Spending 1-year point-to-point with participation rate
- iShares U.S. Real Estate 1-year point-to-point with cap
- iShares MSCI EAFE 1-year point-to-point with cap

**Point-to-point indexed strategy:** The indexed interest rate for a term is determined by comparing the index value on the last day of that term to the value on the first day of that term. The indexed interest rate for that term equals the index change, up to the cap or multiplied by the participation rate. The indexed interest rate will never be less than 0%.

Available strategies may vary by state and by distribution.

## **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, less amounts applied to an interest strategy, less withdrawals, plus or minus applicable MVAs, plus interest credited and less any applicable premium tax or other applicable tax.

**Declared rate strategy value:** A declared rate strategy value equals the amount applied to the declared rate strategy, less any amounts withdrawn, plus or minus applicable MVAs, plus interest credited at the declared interest rate.

**Interest strategy value:** An interest strategy value equals the amount applied to that strategy, less withdrawals, plus or minus applicable MVAs, plus indexed interest credited.

#### **SURRENDER VALUE**

The surrender value equals the greatest of the account value less any MVAs or the guaranteed minimum surrender value.

### GUARANTEED MINIMUM SURRENDER VALUE (GMSV)

The GMSV equals 87.5% of purchase payments, plus interest credited daily at a guaranteed minimum rate less prior withdrawals, net of applicable market value adjustments. The GMSV will not be less than the minimum values required by each state.

In Alaska and New Jersey, the GMSV equals 90% of purchase payments, plus interest credited daily at a minimum guaranteed rate, less withdrawals and net of applicable market value adjustments.

#### **FEES**

There are no up-front sales charges or fees.

### EARLY WITHDRAWAL CHARGE

There are no early withdrawal charges. A market value adjustment will apply during the first five contract years.

### MARKET VALUE ADJUSTMENT (MVA)

During the first five contract years, a market value adjustment (or MVA) will apply if the contract is surrendered or a withdrawal above the free withdrawal allowance is taken.

An MVA is an adjustment to the withdrawal based on how market interest rates have changed since the contract was purchased. Depending on how interest rates have moved, the MVA may increase or decrease contract values. The amount subject to the adjustment is the portion of the account value withdrawn after the 10% free withdrawal allowance. This amount is then multiplied by the MVA factor. An MVA will never reduce the surrender value below the minimum required by law.

For more information on how the MVA works, refer to the MVA endorsement.

# FREE WITHDRAWAL ALLOWANCE

During the first contract year, 10% of the purchase payments may be withdrawn without an MVA. After the first contract year, 10% of the account value on the most recent contract anniversary may be withdrawn without an MVA. 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	Withdrawals are allowed any time prior to the income start date. All withdrawals are subject to IRS regulations and MVAs. Withdrawals will be taken first from amounts applied to the purchase payment account, then from the declared rate strategy, then from the other interest strategy(ies) with the shortest term. If there are multiple interest strategies that meet that criterion, withdrawals will be taken proportionally from all interest strategies with the shortest term. Amounts withdrawn from an indexed strategy prior to the end of a term will not be credited with interest.  Minimum withdrawal: \$500; Minimum account value following withdrawal: \$5,000
ADVICODY FFF	
ADVISORY FEE WITHDRAWALS	Amounts applied to pay advisory fees of up to 1.5% per year are not subject to an MVA and do not reduce the free withdrawal allowance.
	This favorable treatment of advisory fees is provided under endorsement E6061519NW. For states that haven't approved the endorsement, the favorable treatment is non-contractual.
EASY SYSTEMATIC PAYMENT (ESP) PROGRAM (NON-CONTRACTUAL)	The fixed dollar and RMD options are available. Refer to the Terms and Conditions section of the applicable ESP program election agreement form for eligibility requirements. ESP payments reduce the amount available under the free withdrawal allowance. Indexed interest is credited only at the end of a term. Amounts withdrawn under the ESP program before the end of a term will not earn any indexed interest.
PAYOUT OPTIONS	The following options are available following the first contract year: fixed period income, life income or life income with payments for at least a fixed period, and joint and one-half survivor income.
DEATH BENEFIT	The greatest of the account value or GMSV will be paid upon the death of the owner. A spouse who is the surviving joint owner or sole surviving beneficiary may become the successor owner.
STATE VARIATIONS	New Jersey: The GMSV equals 90% of purchase payments, plus interest credited daily at a minimum guaranteed rate, less withdrawals and net of applicable MVAs.

The S&P 500 Risk Control 10% Index refers to the S&P 500 Average Daily Risk Control 10% Price Return Index. For more information, visit US.SPIndices.com and search keyword SPXAV10P. The S&P 500 Index, the S&P 500 Average Daily Risk Control 10% Price Return Index and the S&P U.S. Retiree Spending Index are products of S&P Dow Jones Indices LLC or its affiliates ("SPDJI") and have been licensed for use by MassMutual Ascend. Standard & Poor's®, S&P® and S&P 500 Average Daily Risk Control 10%™ are trademarks of Standard & Poor's Financial Services LLC ("S&P"); Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC ("Dow Jones"); and these trademarks have been licensed for use by SPDJI and sublicensed for certain purposes by MassMutual Ascend. MassMutual Ascend's products are not sponsored, endorsed, sold or promoted by SPDJI, Dow Jones, S&P, or their respective affiliates, and none of such parties makes any representation regarding the advisability of investing in such products nor do they have any liability for any errors, omissions, or interruptions of the S&P 500 Index, the S&P 500 Average Daily Risk Control 10% Price Return Index or the S&P U.S. Retiree Spending Index.

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