



Managing Market Volatility

With an Index Summit 6 registered index-linked annuity
from MassMutual Ascend Life Insurance Company

The Index Summit 6[®] registered index-linked annuities from MassMutual Ascend lets you participate in market growth while reducing your exposure to loss. This unique solution offers indexed strategies linked to external indexes, like the S&P 500[®], and limits downside risk with a 50% downside participation rate—meaning you only assume half the risk of index downturns each term.

The following example uses historical performance of the S&P 500 price return index (SPX) to show hypothetical annual returns of the following strategies:

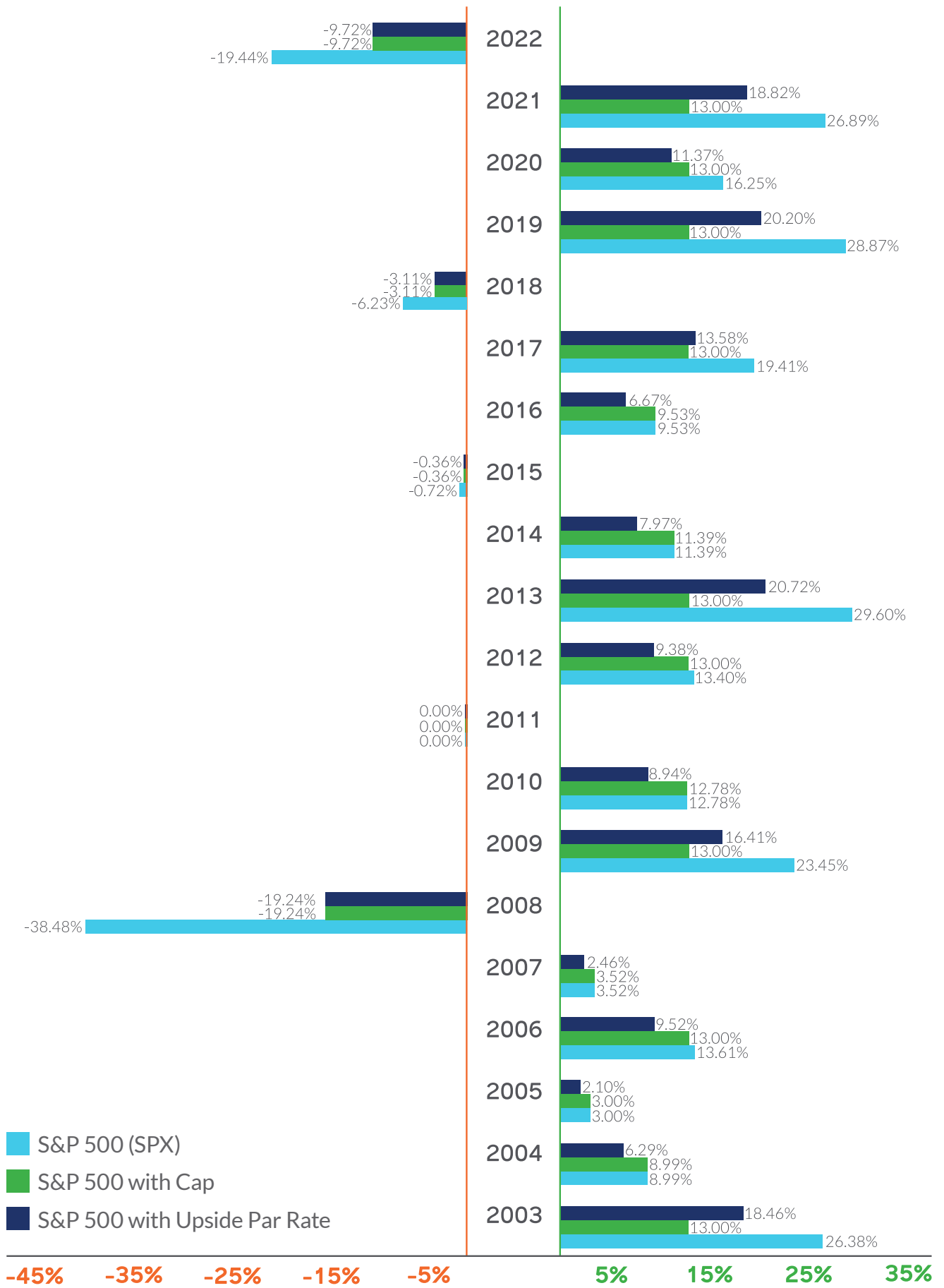
- S&P 500 1-Year Downside Participation Rate with Upside Participation Rate strategy with a 70% upside participation rate
- S&P 500 1-Year Downside Participation Rate with Cap strategy with a 13% cap

The Index Summit 6 was first offered in May 2019. The hypothetical example on the following page is intended to demonstrate how 1-Year Downside Participation Rate with Upside Participation Rate and Cap strategies work, assumes the upside participation rate and cap applied for the entire 20-year period and that no withdrawals were made.

IMPORTANT INFORMATION ABOUT THIS EXAMPLE

- Different assumptions would lead to different results. Past performance does not guarantee future results. Performance can vary significantly over time.
- Strategy values shown are based on hypothetical performance for one-year terms ending on December 31. Actual terms begin on the 6th and 20th of each month, meaning values for such terms could differ from those shown in this example.
- Caps and upside participation rates are set at the start of each term and are subject to change. Since inception, historical caps and upside participation rate for 1-year S&P 500 strategies on this product varied from term to term and ranged from 6.55% to 16.6% and 44% to 89%.
- Under the best circumstances in an increasing market, a 1-year term with cap strategy would be credited the cap each term, and a 1-year term with participation rate strategy would be credited the participation rate multiplied by the positive index change each term. Under the worst circumstances in a decreasing market, an indexed strategy would lose 50% of the negative index change each term. The downside participation rate for a strategy will not change. Future indexed strategies could offer different downside participation rate.
- Early withdrawal charges will apply if money is withdrawn during the early withdrawal charge period and will reduce contract values. This product has a 6-year declining early withdrawal charge period. 8%, 7%, 6%, 5%, 4%, 3%
- A withdrawal before the end of a term may have a positive or negative impact on the strategy value at the end of the term, which may be significant.
- When you buy a registered index-linked annuity, you own an insurance contract. You are not buying shares of any stock or index. You cannot invest directly in an index.
- The S&P 500 price return index (SPX) does not include dividends on the underlying stocks.

	S&P 500 (SPX)	S&P 500 with Cap	S&P 500 with Upside Par Rate
2022	-19.44%	-9.72%	-9.72%
2021	26.89%	13.00%	18.82%
2020	16.25%	13.00%	11.37%
2019	28.87%	13.00%	20.20%
2018	-6.23%	-3.11%	-3.11%
2017	19.41%	13.00%	13.58%
2016	9.53%	9.53%	6.67%
2015	-0.72%	-0.36%	-0.36%
2014	11.39%	11.39%	7.97%
2013	29.60%	13.00%	20.72%
2012	13.40%	13.00%	9.38%
2011	0.00%	0.00%	0.00%
2010	12.78%	12.78%	8.94%
2009	23.45%	13.00%	16.41%
2008	-38.48%	-19.24%	-19.24%
2007	3.52%	3.52%	2.46%
2006	13.61%	13.00%	9.52%
2005	3.00%	3.00%	2.10%
2004	8.99%	8.99%	6.29%
2003	26.38%	13.00%	18.46%
AVG	9.11%	6.68%	7.02%



IN TERMS WHEN THE S&P 500 WAS UP,
**the strategy values would have
increased, limited by the cap
and upside participation rate.**

IN TERMS WHEN THE S&P 500 WAS DOWN,
**the indexed strategy values
would have declined by 50%
of the negative index change.**

MassMutual Ascend's registered index-linked annuities can only be sold through a Broker/Dealer that is contracted with MassMutual Ascend Life Insurance Company.

This material must be preceded or accompanied by a prospectus. To obtain a copy of the prospectus, please visit MassMutualAscend.com/RILArates.

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

The Index Summit 6 also offers several other strategies that use different term lengths, indices, and downside limits. Hypothetical values for those strategies could be higher or lower than those shown in this example.

For annuity contracts, income earned on the contract is subject to income tax as ordinary income when withdrawn. If you are under age 59½, the taxable amount may also be subject to a 10% federal penalty tax. Generally, income tax rates on ordinary income are higher than capital gains tax rates on long-term capital gains and qualified dividend income.

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