Experiment 95438bfd-843c-42fb-9b51-bccb7dbfb54f.

Full tear sheet

Live testing was started at 2017-01-01 where SPY was our benchmark and expected return of the market. Using this strategy, the capital at the end of the investment period were -50822.77.

The rebalance strategy is buying shares at the start of year and selling at the end of year. We din't neither valuate the assets nor optimize the selection.

	In-sample	Out-of-sample	All
Start date			2014-01-02
End date			2017-12-29
In-sample months			36
Out-of-sample months			11
Annual return	9.21%	28.833%	13.802%
Cumulative returns	30.251%	28.704%	67.638%
Annual volatility	13.867%	12.095%	13.449%
Sharpe ratio	0.70	2.16	1.03
Calmar ratio	0.44	4.72	0.66
Stability	0.20	0.85	0.60
Max drawdown	-20.967%	-6.11%	-20.967%
Omega ratio	1.13	1.49	1.20
Sortino ratio	1.03	3.52	1.53
Skew	-0.03	0.41	0.04
Kurtosis	3.18	4.20	3.44
Tail ratio	1.02	1.25	1.04
Daily value at risk	-1.708%	-1.42%	-1.64%
Gross leverage	0.59	0.68	0.61
Daily turnover	0.356%	nan%	0.265%
Alpha	0.05	0.10	0.08
Beta	0.61	0.91	0.64

Worst drawdown periods	Net drawdown in %	Peak date	Valley date	Recovery date	Duration
0	20.97	2015-02-23	2016-05-12	2017-02-14	517
1	6.84	2014-11-26	2015-01-16	2015-02-04	51
2	6.11	2017-05-12	2017-06-16	2017-08-02	59
3	5.76	2017-09-01	2017-09-25	2017-10-30	42
4	4.03	2014-09-02	2014-10-16	2014-10-23	38

Stress Events	mean	min	max
Apr14	0.24%	-0.81%	4.21%
Oct14	0.18%	-0.91%	1.59%
Fall2015	-0.09%	-3.75%	3.40%
New Normal	0.05%	-3.84%	4.21%

Cumulative returns

Cumulative returns volatility matched to benchmark

Cumulative returns on logarithmic scale

Returns

Rolling portfolio beta to SPY

Rolling volatility (6-month)

Rolling Sharpe ratio (6-month)

Top 5 drawdown periods

Underwater plot

Monthly returns (%)

Annual returns

Distribution of monthly returns

Return quantiles

Apr14

Oct14

Fall2015

New Normal

Exposure

Portfolio allocation over time, only top 10 holdings

Long/short max and median position concentration

Total holdings

Long and short holdings

Gross leverage