

Profit Generator V 3.1 Documentation

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Profit Generator originally started out to prove that the back tester didn't work. After some forward testing by holyguy7 on the forex-tsd forum, he proved that it has potential to make serious money in a live trading environment. He asked others to get involved to see if we could evolve this very simple EA into the 'trader's dream', and the PG open source project was born.

Many of you have already had successful forward tests with this EA, and some of you have had pessimistic results. There have been many versions in circulation, and many traders asking which ones are better, more successful, which settings to use etc. Many answers can be found at <http://www.forex-tsd.com/expert-advisors-metatrader-4/1415-profit-generator-ea.html>.

Profit Generator is an extremely simple EA with an immense amount of options. In order to understand the envisioned direction of this EA, let's first take a look at how it operates.

The basis of this EA (core algorithm) is a simple three step process.

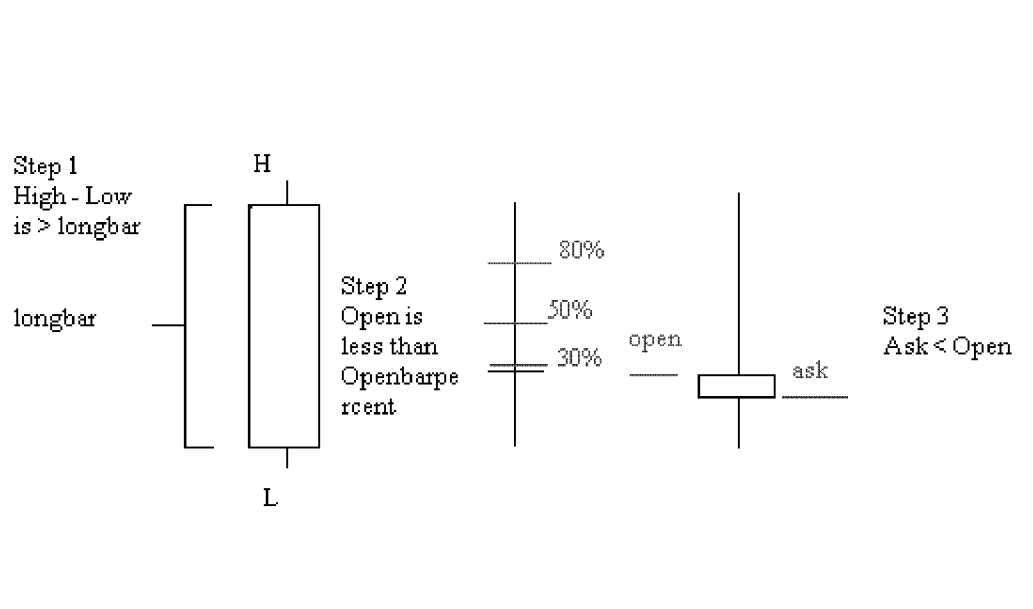
Underlined words are EA variables.

Long Positions-

- Step 1: The present bar must be X length from High to Low ($X = \text{LongBar}$).
- Step 2: The Open must be Less than the Opening Level. $\text{Opening Level} = \text{Low} + (\text{High} - \text{Low}) * \text{OpenBarPercent}$. Default is 50%.
- Step 3: The current Ask price must be lower than the Open.

Short Positions-

- Reverse of Long



As the core is very simple, managing the additional options is not. Some traders out there like to work with the original program because the additions can be a little overwhelming. To simplify matters, we have designed all of the additional options to be turned off and on, and used in different combinations with each other. What this means is a 'newbie' can begin to learn the ropes of working with EA's by leaving the default settings the way they are 'out of the box'; meanwhile the advanced traders have options to customize the EA by turning on different features and changing the external parameters. Let me reiterate the fact that without altering settings, this EA operates just the same as the very first.

The following descriptions are for traders interested in the various options available.

TP=take profit; SL=stop loss; TF= TimeFrame

extern string EName="Pro-Gen_3";

- This is the name of the expert. It is used in naming and file operations, as well as order commenting.

extern int ID_BASE=100000;

- This allows the trader to run more than one test on the same Pair and same TF. This eventually creates the OrderMagicNumber by adding this base number to the TF. E.g. Base-200000 + TF-60 = Magic-200060.
- For example if the trader wanted to run a test of two different setting on the H1-EURUSD then trader would start the first test, and then start the second test after changing this variable to a different number like 200000 or 300000.
- **WARNING- if you de-initialize the expert – i.e. Changing settings, changing charts, turning off MT...etc. You will have to reset the ID_BASE and original settings. Note: look at order comments to see the ID.**

extern int LongBar=15;

- This setting determines the length of the current bar prior to looking at further conditions to open the trade.
- The optimized number seems to be around 15, which means the bar has to be 15 pips from High to Low before trading begins.

extern int MaxTrades=1; //maximum number of trades open at a time

- This number sets the total amount of trades that can be opened by that EA at any given time.
- This can be used in conjunction with “UseOneTradeperPeriod” .

extern double lots=1.0; //

- Lots represents the number of lots until MM is turned on. If MM yields a lot size that is smaller than 0.1 lots, then the system will default to using the number of lots specified here.

extern int stoploss=30,takeprofit=40;

- Stoploss and Takeprofit Levels. If UseClose is on then we are looking for it to manage the TP level. See UseClose.

extern bool MM = false; //Use Money Management or not

- This sets the system to use Money Management according to the Risk and PairsTraded variables.

extern double Risk = 10;

- This sets the percent of available margin to risk. The amount of overall risk per EA can be controlled by PairsTraded.

extern int PairsTraded=0;

- To spread the total amount of the risk factor over several pairs, PairsTraded will have to be set to the number of currency pair that the trader is intending to trade.
- E.g. You are running tests on the four majors and want to spread the risk evenly. Set the PairsTraded to 4. What happens is it takes the standard number of lots that MM would determine to meet the Risk parameter the divides by PairsTraded.
- Set to 0 to use standard MM.

extern bool UseClose=false; // This will use the SuperClose().

- Using the close feature gives the trader some extra options on exiting. There are a few different ways to use the close feature as follows:
 - ScalpMode- This will allow the trader to use the EA to take profit at a lower level than the broker will allow. This can be extremely useful on low TF scalping.
 - Settings: Set TSactivation to desired TP, and TrailPips to (0)
 - TrailingStop Mode- This is much like a traditional TrailingStop.
 - Settings: Set TSactivation to (0) and TrailPips to desired trailing level.

- HybridMode- This will allow the trader to determine a point where the Trailing Stop will kick in. Very useful in situations where the trader desires to capitalize on strong movements through the original TP.
 - Settings- Set TSactivation to the point where the trail activates, and then TrailPips will determine how close to trail by.

extern int TSactivation=40,TrailPips=5;

- TSactivation will set the point where the TS will start. TrailPips specifies the distance of the trail.

extern bool UseHourTrade = false;

- Time filter

extern int FromHourTrade = 7;

- Will start opening trades only after this hour if using the time filter.

extern int ToHourTrade = 20;

The system does not close trades due to the passing of this hour, it prevents new trades from being opened until (FromHourTrade)

extern bool UseSimpleTF=true;

- SimpleTF controls the way the trader inputs TF's into the EA. This applies to all variables storing TF/period information. If the trader has marked this as true then all TF and Periods are to be entered in the following way:
 - 0 = TimeFrame from the chart.
 - 1= M1
 - 2= M5
 - 3= M15
 - 4= M30
 - 5= H1
 - 6= H4
 - 7= Daily
 - 8= Weekly
 - 9= Monthly
 - >9= TF from Chart

extern int period=0;

- Period sets the period for EA operation. If the period is set to zero then the EA defaults to using the TF from the chart. When this number is changed, it will use the TF specified.
- Be careful to input an actual period allowable by MT4. To simplify matters see UseSimpleTF.
- E.g. Set period to 60 (or 5 when using SimpleTF) to use H1 period while looking at alt TF chart.

extern bool OneTradeperPeriod=false;

- When using MaxTrades > 1, this feature will only allow one trade per new period.
- E.g. A new trade will not be placed until the next bar.

extern bool Alerts=false,AlertOnlyMode=false;

- Alerts will send an alert to the platform when a trade signal is present.
- AOM will not place trades, but will alert to the platform.

extern bool WeekendMode=false;

- True=Will close all trades on and after the hour to close, and will not permit new trades until Monday.

extern int hour_to_close=21;

- Hour to close trades when using Weekend Mode.
- Will not permit trade to be opened past this hour.

extern bool EMAconfirm=false;

- Uses EMA direction to confirm trades.
- eg. If Low EMA < HighEMA then the market is bearish and will only place Short orders when the bar meets the core criteria.

extern int LowEMA=10

- This is the Lesser of the two EMA periods.

extern int HighEMA=16;

- This is the Higher of the two EMA periods.

extern int EMAtf=0;

- If 0 then it uses the chart TF, otherwise it will use the period based on period settings outlined in prior

extern bool UseStoOpen=false;

- UseStoOpen changes the way the expert opens the orders. Without this option turned on, the EA places a trade as soon as the market price drops below/above the open. When this option is “true”, the EA will look to enter a trade with stochastics on a lower TF.
- For example, the original algorithm signals a LONG order. Next, the system looks at the stochastics on the M5 (or specified TF) and recognizes that the K line is below the D line, thus signaling a short term bear run. It will wait until this bear run is over and once the K line crosses up over the D line it places the LONG order at a better price.
- Note: This method is untested at the time of this documentation.

extern int StoTF=1;

- Specifies the TF for UseStoOpen. Follows the period rules for the EA. I.e. UseSimpleTF (true/false)

extern bool Reverse=false;

- This will reverse orders regardless of ALL signal direction.
- It will flip BUY and SELL orders and maintain the appropriate SL/TP and Trailing close.

******I want to give special thanks to everyone contributing to this project and to my IB, Ryan Best, for all the hard work he has done for my accounts over the past year, and for setting me up with a broker that matched my initial deposit of \$2000.00 (without a desk => Thanks Ryan, you ROCK!***

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