# **Configuration Guide - Amazon PPC Optimizer**

# Complete Configuration Reference

This guide explains every configuration option in config.json.



# Configuration Structure

### **Amazon API Settings**

```
"amazon_api": {
 "client_id": "...", // API client ID

"client_secret": "...", // API client secret

"refresh_token": "..." // OAuth refresh token
```

#### **Region Codes:**

- NA North America (US, Canada, Mexico)
- EU Europe (UK, Germany, France, Italy, Spain)
- FE Far East (Japan, Australia, India)

### **Bid Optimization Settings**

```
"optimization_rules": {
  "lookback days": 14,
  "min clicks": 10,
  "min_spend": 5.0,
  "target_acos": 0.45,
  "high_acos": 0.60,
  "low_acos": 0.25,
  "min_ctr": 0.003,
  "up_pct": 0.15,
  "down_pct": 0.20,
  "min bid": 0.25,
  "max bid": 5.00
}
```

Setting	Description	Recommended Range	Example
lookback_days	Days of historical data to analyze	7-30	14
min_clicks	Minimum clicks be- fore optimizing	5-25	10
min_spend	Minimum spend (\$) before optimizing	5-20	5.0
target_acos	Target ACOS (% as decimal)	0.20-0.50	0.45 (45%)
high_acos	Threshold to decrease bids	0.40-0.80	0.60 (60%)
low_acos	Threshold to increase bids	0.15-0.35	0.25 (25%)
min_ctr	Minimum CTR threshold	0.002-0.01	0.003 (0.3%)
up_pct	Bid increase percentage	0.10-0.30	0.15 (15%)
down_pct	Bid decrease percentage	0.10-0.30	0.20 (20%)
min_bid	Minimum allowed bid (\$)	0.20-0.50	0.25
max_bid	Maximum allowed bid (\$)	3.00-10.00	5.00

### **How Bid Optimization Works:**

- 1. **Gather Data:** Analyze keywords with at least min\_clicks or min\_spend
- 2. Calculate ACOS: ACOS = Cost / Sales
- 3. **Decision Logic:** 
  - If ACOS > high\_acos → Decrease bid by down\_pct
  - If ACOS < low\_acos → Increase bid by up\_pct
  - If CTR < min\_ctr → Decrease bid by down\_pct
  - If no sales after min\_clicks → Decrease bid by down\_pct
- 4. **Apply Limits:** Clamp bid between min\_bid and max\_bid

### **Dayparting Settings**

```
"dayparting": {
    "enabled": true,
    "peak_hours": [9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20],
    "peak_multiplier": 1.20,
    "off_peak_multiplier": 0.85,
    "day_multipliers": {
        "MONDAY": 1.0,
        "TUESDAY": 1.0,
        "THURSDAY": 1.0,
        "FRIDAY": 1.1,
        "SATURDAY": 1.2,
        "SUNDAY": 1.15
},
    "min_multiplier": 0.4,
    "max_multiplier": 1.8
}
```

Setting	Description	Example
enabled	Turn dayparting on/off	true
peak_hours	Array of peak hours (0-23)	[9-20] = 9am-8pm
peak_multiplier	Bid multiplier during peak	1.20 = +20%
off_peak_multiplier	Bid multiplier off-peak	0.85 = -15%
day_multipliers	Per-day multipliers	Saturday: 1.2 = +20%
min_multiplier	Minimum allowed multiplier	0.4 = -60%
max_multiplier	Maximum allowed multiplier	1.8 = +80%

### **Dayparting Strategies:**

#### **Strategy 1: Business Hours Focus**

```
"peak_hours": [8, 9, 10, 11, 12, 13, 14, 15, 16, 17],
"peak_multiplier": 1.30,
"off_peak_multiplier": 0.70
```

Use for B2B products or office supplies

### **Strategy 2: Evening Focus**

```
"peak_hours": [18, 19, 20, 21, 22],
"peak_multiplier": 1.25,
"off_peak_multiplier": 0.90
```

Use for entertainment products or home goods

### **Strategy 3: Weekend Boost**

```
"day_multipliers": {
    "MONDAY": 0.9,
    "TUESDAY": 0.9,
    "WEDNESDAY": 0.9,
    "THURSDAY": 0.9,
    "FRIDAY": 1.1,
    "SATURDAY": 1.4,
    "SUNDAY": 1.3
}
```

Use for hobby or recreational products

# **Campaign Management**

```
"campaign_management": {
    "enabled": true,
    "acos_threshold": 0.45,
    "min_spend": 20.0,
    "auto_activate": true,
    "auto_pause": true
}
```

Setting	Description	Recommended	Notes
enabled	Enable campaign management	true	
acos_threshold	ACOS limit before pausing	0.45 (45%)	Match your margins
min_spend	Min spend before pausing	\$20	Avoid premature pausing
auto_activate	Auto-reactivate good campaigns	true	Recommended
auto_pause	Auto-pause poor campaigns	true	Use with caution

**Important:** Setting acos\_threshold too low may pause campaigns prematurely. Consider your product margins.

# **Keyword Discovery**

```
"keyword_discovery": {
   "enabled": true,
   "min_clicks": 5,
   "max_acos": 0.40,
   "initial_bid": 0.75,
   "max_keywords_per_run": 50
}
```

Setting	Description	Range	Notes
enabled	Enable keyword dis- covery	true/false	
min_clicks	Min clicks for search term	3-10	Lower = more ag- gressive
max_acos	Max ACOS to add keyword	0.30-0.50	Only add winners
initial_bid	Starting bid for new keywords	\$0.50-\$1.50	
max_keywords_per_ru	Limit per execution	20-100	Avoid overwhelming

### **How It Works:**

- 1. Analyze search term reports
- 2. Find terms with min\_clicks and ACOS < max\_acos
- 3. Add as new keywords (exact match)
- 4. Set initial bid to initial\_bid

# **Negative Keyword Management**

```
"negative_keywords": {
   "enabled": true,
   "min_spend": 10.0,
   "max_acos": 1.0,
   "auto_add": true
}
```

Setting	Description	Range	Example
enabled	Enable negative keyword manage- ment	true/false	true
min_spend	Min spend before blocking	\$5-\$20	\$10
max_acos	Max ACOS before blocking	0.80-2.0	1.0 (100%)
auto_add	Auto-add negatives	true/false	true

### Logic:

- Search terms with spend  $> \min\_spend$  and ACOS  $> \max\_acos$  are added as negative keywords
- Prevents wasted spend on non-converting terms

# **Budget Optimization**

```
"budget_optimization": {
   "enabled": true,
   "increase_threshold_acos": 0.30,
   "decrease_threshold_acos": 0.60,
   "budget_change_pct": 0.20,
   "min_daily_budget": 5.0,
   "max_daily_budget": 100.0
}
```

Setting	Description	Purpose
enabled	Enable budget optimization	Control budget
increase_threshold_acos	ACOS to increase budget	Scale winners
decrease_threshold_acos	ACOS to decrease budget	Limit losers
budget_change_pct	Percentage change	0.20 = 20%
min_daily_budget	Minimum budget	Prevent too low
max_daily_budget	Maximum budget	Cap spending

# **Placement Bid Adjustments**

```
"placement_bids": {
    "enabled": true,
    "top_of_search_multiplier": 1.50,
    "product_pages_multiplier": 0.80
}
```

#### **Placement Types:**

- **Top of Search**: First page search results (premium placement)
- Product Pages: On competitor product pages

#### Strategy:

- Top of Search: Higher multiplier (1.30-1.80) for brand awareness
- Product Pages: Lower multiplier (0.70-0.90) for cost efficiency

#### **Features Control**

```
"features": {
    "enabled": [
        "bid_optimization",
        "dayparting",
        "campaign_management",
        "keyword_discovery",
        "negative_keywords"
]
```

#### **Available Features:**

- bid optimization Adjust keyword bids
- dayparting Time-based adjustments
- campaign\_management Pause/activate campaigns
- keyword discovery Add new keywords
- negative\_keywords Block poor terms

#### **Selective Execution:**

```
python amazon_ppc_optimizer.py --features bid_optimization dayparting
```

### **Logging Configuration**

```
"logging": {
  "level": "INFO",
  "output_dir": "./logs",
  "audit_trail": true
}
```

#### Log Levels:

- DEBUG - Detailed technical info (verbose)

- INFO General information (recommended)
- WARNING Warnings only
- ERROR Errors only

# **©** Configuration Templates

### **Conservative Template (Low Risk)**

```
{
  "optimization_rules": {
    "min_clicks": 25,
    "up_pct": 0.10,
    "down_pct": 0.10,
    "target_acos": 0.50
},
  "campaign_management": {
    "acos_threshold": 0.60,
    "auto_pause": false
},
  "keyword_discovery": {
    "max_keywords_per_run": 20
}
```

### **Aggressive Template (High Performance)**

```
{
  "optimization_rules": {
    "min_clicks": 10,
    "up_pct": 0.25,
    "down_pct": 0.30,
    "target_acos": 0.35
},
  "campaign_management": {
    "acos_threshold": 0.40,
    "auto_pause": true
},
  "keyword_discovery": {
    "max_keywords_per_run": 100
}
```

### **Balanced Template (Recommended)**

```
{
  "optimization_rules": {
    "min_clicks": 15,
    "up_pct": 0.15,
    "down_pct": 0.20,
    "target_acos": 0.45
},
  "campaign_management": {
    "acos_threshold": 0.50,
    "auto_pause": true
},
  "keyword_discovery": {
    "max_keywords_per_run": 50
}
}
```

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### **Best Practices**

- 1. Start Conservative Use higher min clicks and smaller up pct / down pct initially
- 2. Monitor First Week Check audit logs daily to understand changes
- 3. Adjust ACOS Set target acos based on your actual profit margins
- 4. Use Dayparting Analyze your traffic patterns and adjust accordingly
- 5. Limit Keywords Don't add too many keywords at once
- 6. Test Dry-Run Always test configuration changes in dry-run mode first

Next: Back to README (README.md) or API Setup Guide (API SETUP GUIDE.md)