I. Product Information	
Item	**Specification**
Product Name	Solar Pool Copper Ionizer
Product Type	Floating Solar Copper Ionizer Device
Working Principle	solar-powered copper ionization
Installation Method	Floating Type
Application Scenarios	Home Pools / SPA / Landscape Pools
II. Solar Panel Specifications	
Item	**Specification**
Solar Panel Type	Monocrystalline Solar Panel
Operating Voltage	6.0 V
Operating Current	0.32 A
Peak Power	≈1.92 W
Output Type	DC Output
Operating Mode	Working automatically when exposed to direct sunlight
Sunlight Exposure Time	6 Hours Direct Sunlight
III. Electrolysis System Specifications	
Item	**Specification**
Copper Electrode Material	High Purity Copper

Copper Rod Size	Ø20 × 105 mm
Copper Rod Quantity	1 pcs
Cathode Material	304 Stainless Steel
Cathode Structure	Spring Structure
Cathode Quantity	1 pcs
Electrolysis Method	Low Voltage DC Electrolysis
Copper Ion Release Rate Approx	1100–1800 mg/day
Recommended Copper Ion Concentration	0.2–0.4 ppm
Cathode / Anode Replacement Cycle	6 Months
IV. Product Functions	
Item	**Specification**
Main Function	Helps Prevent Algae Growth
Auxiliary Function	Reduces Chlorine Usage
Working Method	Automatic Operation
Waterproof Rating	IPX7
External Power Supply	None
Chemical Additives	None
V. Recommended Water Conditions	
Item	**Range**
pH	7.2–7.6
Water Temperature	15–35℃
Salinity	0–4000 ppm
Free Available Chlorine	0.5–2 ppm
VI. Recommended Pool Size	
Pool Volume	**Usage Recommendation**
≤10 m³	Limit usage time to avoid elevated copper ion levels
10–40 m³	Recommended

>40 m³	Use Multiple Units
VII. Product Features	
Solar Powered Operation	
Floating Design	
Helps Prevent Algae Growth	
Reduces Chlorine Usage	
Low Maintenance	
VIII. Notes	
Regularly test pool pH and copper ion levels using test strips, Over-Concentration Warning Remove the Ionizer if Copper Ion Level Exceeds Recommended Range	
For best results, use together with a small amount of chlorine.	
Copper electrodes are consumable parts and should be replaced periodically.	
Remove and clean the unit if not used for a long period.	