金桥通精密机械

MADE IN CHINA 中国制造 2025

PRODUCT MANUAL

济南金桥通精密机械有限公司

Jinan Golden Bridge Precision Machinery Co. , Ltd.

金桥通

Catalog

SBW-S voltage stabilizer(High end)

Summary

SBW-S series three-phase high power voltage regulator (high-end) (hereinafter referred to as voltage regulator)is our company introduced the product foreign advanced technology, combined with China's national conditions, independent research and development and design of a power product. The output voltage can be kept stable when the voltage fluctuation causes the voltage fluctuation.

Compared with other types of voltage regulators, this series of products have large capacity, high efficiency and no wave shape span change, stable voltage regulation, extensive use load, can withstand instantaneous overload, can be long-term continuous operation, the implementation of unattended, hand control, automatic control, mains, voltage control switch at will, with overvoltage, undervoltage , overcurrent, delay, mechanical fault automatic protection device, and the use of convenient installation, reliable operation and other characteristics. Can be widely used in industry, agriculture, transportation, post and telecommunications, national defense, railway, science experiment in the fields of large mechanical and electrical equipment, metal processing equipment, production line, construction equipment, elevator, medical equipment, program control equipment room, CNC machine tools, printing equipment, textile equipment, air conditioning, radio and television and household appliances lighting,Experimental instruments and other places that need to be stabilized.

Technology Parameter

Basic Indexes		Protection Function	
Input Voltage	380V±20% or wide voltage special customization	Overvoltage	Output exceeds the rated voltage by 10% (adjustable), with a delay of 3-5s to cut off the output power supply
Output Voltage	Can be selected within 380V±5%	Undervoltage	Output below rated voltage -15% (adjustable), delay 3-5s to cut off output power
Voltage Stabiliza -tion Accuracy	1-5% can be set	Short Circuit	When the load equipment is short circuited, cut off the output power supply
Frequency	50Hz/60Hz	Overcurrent	When the rated output current is exceeded, delay for 3-5 seconds to cut off the output power supply
Response Time	≤0.05S	Reverse Phase	When there is an error in the three-phase electrical phase sequence, the machine alarms and cuts off the output power.
Stable Time	When the input voltage changes step by 10% re-lative to the rated value, its stabilization time is ≤1S	Phase Miss	When there is a phase loss in the three-phase power supply, the machine alarms and cuts off the output power.
		Bypass	When the voltage regulator malfunctions or is repaired, it has a manual or automatic power supply through device
Other Indexes			
Additional Wave -form Distortion	≤1%	Withstand Voltage	The whole machine is 2000VAC/min to ground without breakdown or arcing phenomenon
Additional Output Voltage Asymmetry	The increment of output asymmetry to input ≤ 1%	Insulation Resistance	Whole machine to ground ≥ 2MΩ
Noise	<55dB	EMI Filter Device	Can effectively filter out harmonic interference from the power grid (optional configuration)
Efficiency	≤50KVA,efficiency>95%;≥100KVA,efficiency>98%	Lightning Arrester	When the power grid undergoes instantaneous changes and induces lightning strikes, it can provide good surge current protection effect (optional configuration)
Relative Humidity	20%~90%	Monitoring Interface	Equipped with RS232 and RS485 interfaces for remote control, remote signaling, and telemetry functions (optional configuration)

Specification

Model	Rated Capacity (KVA)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Weighy (Kgs)	Dimensions W×D×H (mm)
SBW-S-10	10	16	3 Phase 304-456	380±(1-5)% Can be set	150	
SBW-S-20	20	31			160	
SBW-S-30	30	46			180	
SBW-S-50	50	76			200	
SBW-S-80	80	122			270	
SBW-S-100	100	152			300	
SBW-S-120	120	182			320	
SBW-S-150	150	228			502	
SBW-S-180	180	274			535	
SBW-S-200	200	304			582	
SBW-S-250	250	380			735	
SBW-S-320	320	487			840	
SBW-S-400	400	608			1245	
SBW-S-500	500	760			1586	
SBW-S-600	600	912			1865	
SBW-S-800	800	1216			2045	
SBW-S-1000	1000	1520			2400	
SBW-S-1200	1200	1824			2600	
SBW-S-1600	1600	2431			2850	
DBW-S-20	20	91	1 Phase 176-264	220V±3% Can be set	210	
DBW-30	30	137			235	
DBW-50	50	228			255	
DBW-100	100	455			285	

SBW-S voltage stabilizer(Basic)

Summary

SBW regulator (basic) namely intelligent high precision three-phase AC regulator composed of contact autoregulator, servo motor,automatic control circuit, when the grid voltage is unstable or load changes, the automatic sampling regulator control circuit signal drive the servo motor, adjust the voltage regulator auto regulator carbon brush position, make the regulator output voltage adjustment to the rated value and reach.stable state.

This series of regulator is ordinary, with large screen digital display function.

The series of voltage regulator products have many varieties, full specifications, beautiful appearance and other advantages, with the waveform without distortion, high efficiency, reliable performance, long-term operation and other characteristics, the voltage regulator is equipped with delay and undervoltage protection function. This voltage regulator can be widely used in any power place, is an ideal voltage regulator power supply (voltage regulator), to ensure the normal operation of your electrical equipment. Capacity ranged from 0.5 KVA to 120 KVA

Technology Parameter

Input Voltage	1 Phase 160V-250V	**Adjust Time**	<1S(at 10% change in input voltage)
	3 Phase 277V-430V(3 Phase 4 wires)	**Ambient Temperature**	-10°C-+40°C
Output Voltage	1 Phase 220V and 110V(0.5KVA-3KVA)	**Temperature rise**	<60°C
	1 Phase 220V(5KVA-30KVA)	**Waveform Distortion**	None
	3 Phase 380V and 220V	**Load Factor**	0.8
Voltage Stabiliza -tion Accuracy	3 Phase 220V±3% 110V±6%	**Dielectric Strength**	1500V/min
Frequency	50Hz/60Hz	**Insulation Resistance**	1Phase>5MΩ 3Phase>2MΩ
Overvoltage Protection	246V±4V		

Specification

Phase	Model (KVA)	Demension	Phase	Model (KVA)	Demension
3 phase	SBW-10KVA	400x350x720mm	3 phase	SBW-50KVA	600x450x970mm
	SBW-15KVA	400x350x720mm		SBW-60KVA	600x450x970mm
	SBW-20KVA	500x400x800mm		SBW-80KVA	660x450x1050mm
	SBW-30KVA	500x400x800mm		SBW-100KVA	660x450x1050mm
	SBW-40KVA	500x400x800mm		SBW-120KVA	660x450x1050mm

ZBW voltage stabilizer

Summary

ZBW series intelligent touchless AC regulator is a new generation of AC regulator power supply developed by our company using the most advanced foreign technology and combined with China's national conditions. It integrates microcomputer program processing, photoelectric transmission, touchless switch, AC compensation voltage regulator technology, which satisfies special need for power supply of sophisticated equipment. It has the advantages of fast response speed, high voltage stabilization accuracy, no carbon brush, no contact, no machinery, no maintenance, three-phase automatic voltage and other balance, and is equipped with RS-232 interface, which can realize remote control, remote communication and telemetry. This product is widely used in communication equipment, radio and television, industrial production lines, CNC machine tools, light industry textile, medical equipment, hotel, computer room and other places that need the voltage stability.

Specification

Model	Rated Capacity (KVA)	Output Voltage Range(V)	Output Voltage (V)	Rated Output Current (A)	Weight (Kgs)	Deminsions W×D×H (mm)
ZBW-S10	10	3 phase	3 phase	15	140	
ZBW-S20	20	304V~456V	380V±2%	30	160	
ZBW-S30	30			46	180	
ZBW-S50	50			76	195	
ZBW-S75	75			114	316	
ZBW-S100	100			152	330	
ZBW-S150	150			228	450	
ZBW-S225	225			342	530	
ZBW-S320	320			486	630	
ZBW-S400	400			608	750	
ZBW-S500	500			760	870	
ZBW-S600	600			912	980	
ZBW-D3	3	1 phase	1 phase	14	20	
ZBW-D5	5	176V~264V	220V±2%	23	28	
ZBW-D10	10			45	50	
ZBW-D20	20			91	80	
ZBW-D30	30			136	100	

Technology Parameter

Input	Stable Voltage Range	3Phase 304V-456V 1Phase 176V-264V
	Frequency	47Hz-63Hz
Output	Rated Voltage	Single phase voltage 220V, three-phase voltage 380V (can also be adjusted to other voltages, such as 400V)
	Stabilized Voltage Precision	± (1-5)% selectable (conventional setting is ± 2%)
	Response Time	Fast (one power cycle 20ms)
	Waveform Distortion	No additional waveform distortion (static)
	Efficiency	≥98%
	Three-phase Imbalance	Automatic balance of three-phase
	Delay Output	First stabilize the voltage, then output (to protect the equipment from impact)
Protection	Overvoltage	If the output voltage is higher than 10% (245V), cut off the output or continuously turn to the bypass.
	Undervoltage	If the output voltage is below 10% (195V), cut off the output or continuously turn to the bypass.
	Phase Loss	have(Automatic cut-off)
	Overload	Electronic detection, cut off output within 3 minutes of overload
	Overcurrent	Dual protection of electronic detection and circuit breaker
	Short Circuit	Dual protection of electronic detection and circuit breaker
	Bypass	Uninterruptible automatic bypass
Indicate	Voltage	A. B, C, ∑ ABC 3Phase have true RMS LCD display, respectively
	Current	A. B, C, ∑ ABC 3Pphase have true RMS LCD display, respectively
	Work Status	Stable voltage state/mains voltage state
	Abnormal Situation	Overvoltage, undervoltage, overload, and protection wire breakage
Human Machine Interface		Intelligent human-machine interface operation panel, convenient for setting and querying various parameters
Working Mode		Two working modes: voltage stabilization and mains power supply
Overload Capacity		5 times rated current for 1 second

JJW precision purifying ac voltage stabilizer

Summary

JJW series precision purification AC voltage regulator is a new type of voltage regulator with international advanced sinusoidal energy distribution voltage regulator technology, integrating voltage regulator and mains power purification function.

JJW series precision AC purification AC voltage regulator not only has the advantages of high voltage control accuracy, fast dynamic response speed and small distortion, but also this voltage regulator has the advantages of strong load adaptability and strong anti-lectromagnetic interference ability.

JJW series precision purification AC voltage regulator is mainly used in computers, precision instruments, testing equipment, communication and broadcasting equipment, automatic control system with high power supply quality requirements.

Production capacity: single-phase 0.5 KVA-30 KVA three-phase 1.5 KVA-100 KVA

Technology Parameter

Input Voltage	1Phase 175~260V±3%，3Phase 310V~450V
Output Voltage	1Phase 220V±0.5%　　3Phase 380V±1%
Frequency	50Hz/60Hz
Overvoltage Protection	1Phase 245±5V　　3phase 420V±8V
Source Voltage Effect	≤±0.5%
Loading Effect	≤±1%
Response Time	≤50ms
Additional Waveform Distortion	≤±5%
Relative Humidity	≤90%
Peak Absorption	Input 1000V/3us,　peak output ≤ 5V
Insulation Resistance	＞5MΩ
Power-factor of Load	＞0.9
Ambient Temperature	-5~+40℃
Efficiency	＞98%　(Fullload)

Transformer and voltage stabilizer integrated machine

Summary

The change of the peak and valley voltage of the power grid and the impact of various high-power perceptual loads on the power grid cause the fluctuation of the power grid voltage, which threatens the safety of many sophisticated and expensive equipment and causes direct or indirect heavy losses. According to the different needs of industry users for electricity safety, we have customized a series of personalized industry special regulators for many industry users, hoping to use more stable power supply to achieve mutual benefit and win-win results to maintain and increase the value of users' assets. In view of the difference between the input voltage required by most imported equipment and the domestic power grid voltage, this product is specially designed to integrate voltage stabilization, voltage change and protection functions. The product has the characteristics of small size, high efficiency, high cost performance, and can complete multiple different output voltages at the same time. Capacity ranging from 10 KVA to 250 KVA.

Technology Parameter

Model	SBW-SG
Capacity	10KVA~250KVA
Input Voltage	304V~456V
Output Voltage	200V, 220V, 380V, 480V or set according to user requirements
Phase	3 Phase
Insulation Strength	2000V, no breakdown for 1 minute, no arcing phenomenon
Insulation Resistance	≥2 MΩ
Efficiency	≥98%
Waveform Distortion	≤0.1%
Frequency	50Hz~60Hz
Stable Voltage Accuracy	±(1~5)% can be set
Stability Time	When the input voltage jumps by 10% relative to the rated value, the stable time is less than 1.5S

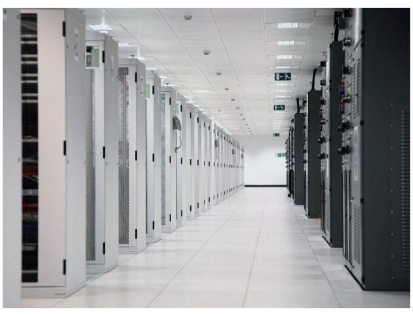
SG transformer

Summary

SG, DG series products are our company using high quality materials and advanced vacuum immersion paint equipment and professional production technology, independent research and development, production of 0.5 KVA-1200 KVA between. SG series three-phase coherent type transformer is widely used for various power supply occasions with AC 50,60Hz, input and output voltage is not more than 1000V. We have independent research and development design capabilities, transformer key indicators such as: product capacity, insulation level, voltage ratio, connection mode , multi-tap lead, external size, distribution requirements, etc., can be customized according to user requirements. This product has a applicable load, can withstand overload at any time, long-term continuous work.

Technology Parameter

	1Phase	3Phase
System Voltage	36V~1000V	
Capacity	0.5~1200KVA	
Phase	1Phase 3Phase	
Power	≥98%	
No-load Current	<4%	
Insulation Strength	2000V, no breakdown or arcing phenomenon for 1 minute	
Insulation Resistance	≥2MΩ	
Temperature Rise	<100	
Short-circuit Impedance	<4%	
Linking Goups	△/△,△/Y,Y/Y,Y/△ (3Phase)	
Frequency	50Hz/60Hz	



JBK series transformer

Selection Guide

Product Name	Rated Capacity	Rated Voltage (Input/Output)
JBK	□	□
↓	↓	↓
JBK	40:40VA	M:380V220V/220V36V24V6V (220V common)
JBK1	63:63VA	S:380V220V/127V36V12V6V (127V common)
JBK2	...	F:380V220V/110V36V24V6V (110V common)
JBK3	3000:3000VA	C:380V220V/36V24V12V6V (36V common)
JBK4		D01:380V/220V
JBK5		D02:380V/36V
		D03:380V/24V
		D04:380V/220V36V
		D05:380V220V/36V
		D06:380V220V/24V
		D07A:220V/220V isolation
		D08: 220V/36V
		D09: 220V/24V
		DZ1: customized
		DZ1A: customized Class A

Scope of Application

JBK series machine tool control transformers are usually used as electrical control, lighting and indicator power.

Certification and Standards

Industry standard: JB / T5555

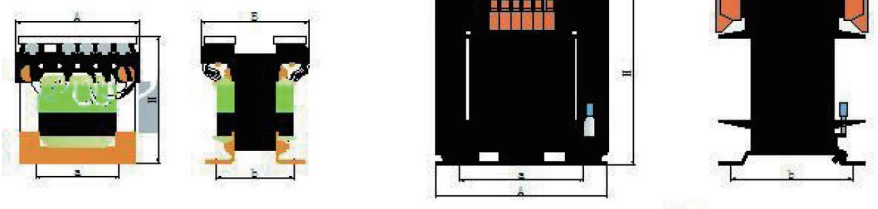
Product Features

■ I-coil skeleton, EI shell structure, simple process, simple structure, strong seismic capacity

■ Using imported materials and advanced technology, with reliable work, low energy consumption, small volume, safe wiring, wide applicability and other characteristics

■ The terminal and skeleton are integrated into one whole to improve the protection level; the domestic IT cold pressing terminal is used to increase the wiring density: the transformer core and bottom plate; the overall installation size is more accurate

The Appearance and Installation Dimensions (mm)



The Appearance and Installation Size of the JBK 4 Machine Tool Control Transformer

Capacity	Dimension	Installation Dimensions	Installation Hole Size
VA	A×B×H	a×b	
40	79×73×92	58·5×46	4·5
63	79×73×92	58·5×46	4·5
100	85×89×97	65×62	5
160	97×91×105	83×73	5.5
200	97×105×105	84.5×86	6
250	97×105×105	84.5×86	6
300	121×103×122	90×83.5	6
400	121×103×122	90×83.5	6
630	150×111×143	122×90	7
800	151×128×143	122×105	7
1000	215×170×150	142×160	7×14
1600	245×185×155	155×180	7×14
2000	275×210×175	175×210	7×14
2500	275×210×175	175×210	7×14
3000	200×210×175	175×210	7×14
4000	240×340×245	180×170	8.5×19
5000	240×350×245	180×170	8.5×19
6000	240×360×245	180×190	8.5×19

Working conditions and installation conditions

■ Altitude: ≤2000m
■ Ambient temperature: -5~ + 40℃
■ Air relative humidity: the average monthly maximum relative humidity of the wettest month is 90%, and the average monthly temperature of the month is + 25℃
■ work environment:
A. There is no pollution and corrosion and explosive medium that seriously affects the transformer insulation in the atmosphere
B. No violent vibration and turbulence in the installation site
C. Places free from rain and snow
D. The voltage waveform of the power supply is similar to a sine wave
E. Power supply voltage deviation shall not be greater than ± 5%

UPS PLG bypass cabinet

Summary

Electric PLG series bypass cabinet is specially designed for power plant, petrochemical and other large industrial UPS supporting the production of bypass regulator.

PLG series consists of a complete standby mains bypass of isolation transformer (single single / two variable single / single three, three changes), compensation transformer, voltage regulating transformer, transmission mechanism, brush contact system, control system, manual bypass switch (optional), DC reverse diode (optional), transmitter (optional), etc.

Production capacity range: 10 KVA ~ 220 KVA

Technology Parameter

Basic Indexes		Protection Function	
Input Voltage	380V±15% (3Phase), 220±15% (1Phase)	Overvoltage	When the voltage exceeds the overvoltage setting value, cut off the output power supply
Output Voltage	380V±5% (3Phase), 220±5% (1Phase)	Undervoltage	When the voltage is below the undervoltage setting, cut off the output power supply
Voltage Stabiliza -tion Accuracy	Initial setting of 2.5% (adjustable from 1% to 5%)	Short Circuit	When the load equipment is short circuited,cut off the output power supply
Frequency	50Hz/60Hz		
Other Indexes			
Additional Wave -form Distortion	≤1%	Withstand Voltage	The whole machine is 2000VAC/min to ground without breakdown or arcing phenomenon
Additional Output Voltage Asymmetry	Increment of output to input asymmetry ≤ 1%	Insulation Resistance	Whole machine to ground ≥2MΩ
Noise	<55dB	EMI Filter Device	Can effectively filter out harmonic interference from the power grid(optional configuration)
Efficiency	Capacity<40KVA ≥ 94% Capacity 40~100KVA ≥ 94% Capacity 100KVA ≥ 98%	Lightning Arrester	When the power grid undergoes instantaneous changes and induces lightning strikes, it can providde good surge current protection effect(optional configuration)
Ambient Temperature	-10℃~+45℃	Monitoring Interface	Equipped with RS232 and RS485 interfaces for remote control,remote signaling,and telemetry function(optional configuration)

DC power supply

Summary

ZYJ series high power DC voltage stability flow linear power supply for single-phase or three-phase input, output DC power supply, with high precision, high stability and good electrical characteristics, can provide powerful low pulsating DC power supply, so that our products more perfect performance. It has a perfect protection circuit, in order to better meet the user's simple, easy to use requirements.

Compared with the switching power supply, it has high precision, small ripple, and no interference from high frequency radiation. The power supply can be used for complex tests of capacitors, relays, resistors, etc., and can also be used as experimental test equipment for thermistors, motors and other electronic components, automatic aging equipment, and all other occasions that require DC power supply.

Technology Parameter

Model Range	Nearly 300 specifications, output voltage 0-1000V, output current 0-2000A
Constant voltage and Constant Current	The voltage and current values can be continuously adjusted from zero to the rated value, with automatic conversion of constant voltage and current
Overcurrent Alarm	The alarm current value is continuously adjustable from 0 to 120% of the rated value. When the output current of the power supply exceeds the current alarm value, an audible and visual alarm will be triggered
Overvoltage Protection	The voltage protection value is continuously adjustable from 0 to 120% of the rated value. When the output voltage of the power supply exceeds the voltage protection value, it will trip for protection
Short Circuit Protection	Allow for long-term short circuit or short circuit startup in any working state
Overload Protection	When the power supply or load malfunctions and the output current exceeds 1.5 times the rated value, the power supply trips for protection
Short Circuit Alarm	When the output voltage is below 1% of the rated value, the power supply will sound and light an alarm (optional)
Automatic Discharge	For capacitive load shutdown and discharge (optional), output display voltage and current simultaneously with LED digital display
Pulse Operation	Can be equipped with a time controller to form a DC pulse power supply (optional)
Intelligence	Can be connected to a computer to form an intelligent power supply controlled by the computer (optional)
Input Voltage	AC220V±10% or AC380V±10%
Output Voltage	DC-0- Rated voltage Output current 0- rated current
Constant Voltage and Constant Current	The voltage and current values can be continuously adjusted from 0 to the rated value, and the constant voltage state and constant current state can automatically switch
Voltage Stabilizing Performance	Voltage adjustment rate ≤ 0.05% Load adjustment rate ≤ 0.1% Ripple effective value ≤ 0.1%+20MV
Temperature Coefficient	300PPM/℃ (typical value)
Steady Current Performance	Current adjustment rate ≤ 0.1%
Display Method	The voltmeter has a 3 or 4-digit half LED digital display The ammeter has a 3 or 4-digit half LED digital display
Display Accuracy	Voltmeter 0.1V Ammeter 0.01A (Note: The display accuracy of different specifications of power supplies may vary)
Display Error	Voltmeter≤1%±1 Ammeter≤1%±1 (note: display error can be adjusted according to customer requirements)
Short Circuit Protection	Cut off output
Protection Method	Overvoltage, overload, and phase loss tripping protection; Overcurrent alarm protection
Working Mode	Long term full load continuous operation
Environment Condition	Temperature -20 ℃ -+40 ℃ Humidity ≤ 90%

The Voltage and Frequency Tables in Some Countries and Areas of The World

Asian Countries	Voltage(1 Phase)	Frequency
South Korea	110V/220V	60Hz
Japan	100V	50/60 Hz
Hong Kong	220V	50 Hz
China	220V	50 Hz
Taiwan	110V	60 Hz
Philippines	220V	60 Hz
Thailand	220V	50 Hz
Singapore	230V	50 Hz
Iran	220V	50 Hz
Israel	230V	50 Hz
Jordan	220V	50 Hz
Kuwait	240V	50 Hz
Malaysia	240V	50 Hz
Vietnam	120V	50 Hz
Syria	220V	50 Hz
Saudi Arabia	127V/220V	50/60 Hz
Bangladesh	220V	50 Hz
Indonesia	127V	50 Hz
India	115V/230V/240V	50 Hz

European Countries	Voltage(1 Phase)	Frequency
Austria	230V	50Hz
Belgium	230V	50 Hz
Czecho	220V	50 Hz
Denmark	230V	50 Hz
France	230V	50 Hz
German	230V	50 Hz
United Kingdom	240V	50 Hz
Greece	230V	50 Hz
Hungary	220V	50 Hz
Iceland	230V	50 Hz
Italy	220V	50 Hz
Luxembourg	220V	50 Hz
Monaco	220V	50 Hz
Netherlands	230V	50 Hz
Norway	230V	50 Hz
Poland	220V	50 Hz
Portugal	230V	50 Hz
Spain	220V	50 Hz
Switzerland	230V	50 Hz
Finland	230V	50 Hz
Slovakia	220V	50 Hz
Russia	230V	50 Hz

American Countries	Voltage(1 Phase)	Frequency
America	120V	60Hz
Canada	120V	60 Hz
Mexican	127V	60 Hz
Brazil	127V	60 Hz
Chile	220V	50 Hz
Colombia	110V	60 Hz
Costarica	120V	60 Hz
Dominican	110V	60 Hz
Ecuador	127V	60 Hz
Morocco	127V	50 Hz
Porto Rico	120V	60 Hz
Argentina	220V	50 Hz
Venezuela	120V	60 Hz

Africia/Australian Countries	Voltage(1 Phase)	Frequency
Egypt	220V	50Hz
South Africa	220V	50 Hz
Nigeria	220V	50 Hz
Australia	240V	50 Hz
New Zealand	230V	50 Hz

Note: The content of this table is only for your reference.

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