ation Sheet						
Name of cli	ent			neutral		
Name of pro	Name of product				power	supply
Product Model /	Version		G500 V	1. 2. 00		
Product Specifi	cations		500/5	19.48Wh		
Specification V	Version			AO		
Date of is	sue			2022-9-5		
to copy Yang Chao	Shenzhen zhi resource To exan ine	<u>s co.,</u> 1	energy 1td	App Gu	oroval Jinbo	
	Customer	signat	ure			
confi rm	To e xamin e			Appr val		

Product Specifc

1.

		Revision rec ord		
Version number	date	Revised cont ent explaina tion	Draft	Approva 1

#### catalog

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## 1 Introduction

### 1.1 About this product

Model: G500M (Amer

ican and Japanese r

egulations) Produc

t version number: V

1.2.00

Customer Name: Neutral

### 1.2 About this specification

This product specification is compiled and released by the com pany's product center, which is the specification of the product re leased by the company, and is an important basis for the company to carry out the relevant work of this product (including production,

inspection, testing, certification, marketing, etc.).

This product specification is maintained and updated by the company 's product center.

### 1.3 Normative reference

Reference standards are as follows:

1)

GB31241-2014Safety requirements for lithium-ion batterie

s and batteries for portable electronic products

(countryHome Standard No. 1No. The amended)

2)

GBT35590 - 2017 "General Standard for Mobile Power Supply for Di gital Equipment"

3)

CethTS018-2020Technical Specification for Portable Li-ion Batt ery Energy Storage Power Source Certification(for the first tim e)

## 2 Product Overview

G500MIs a US / Japanese AC power standard, rated AC output power of500 W, adopted18650Ternary lithium battery, the battery capacity is519.48Wh Portable energy storage power products for the home shouldEmergency el ectricity, outdoor travel, emergency relief, field work and other occasions. The product AC total output power is 500 W, Have two ways110VAC output, three-way complianceQC3. OStandardUSB-AOutput, all the way in li ne withPD60StandardUSB-COutput, two waysDC5525outputWith a flare port o utput, built in 5 W LEDLighting andSOSAlarm function, support10WWirele ss charging

#### Yes.

This product comes standard with 25 V / 4AofACAdapter Support110V AC charging, but also supports DCphotovoltaic18V/100-200WCharging and DC 12VThe car charger charges the product.



## 4 Switches and buttons

Seri	Key	name	Numb	Intr
al			er	oduc
numb				tion

er			S
1.	Master switch	1 indi	Press the master switch, turn on, LCD screen
	button	vidua	lights up. Touch and press off.
		1	Press the master switch to $control: DC5525$ Wit
			h the cigarette lighter output, the control
			USB-A, USB-C, Wireless Charge Output
2.	AC Output Swit	1 indi	Control the AC output.
	ch	vidua	
		1	
3.	DC output swit	nothi	
	ch	ng	
4.	USB/Wireless c	nothi	
	harging switch	ng	
5.	Light switch	1 indi	Normal: Short Press1Next light, and then sho
		vidua	rt press1Secondary closure
		1	SOS: Continuous Short Press2 Next Flash, Short
			Press1Next change light, and then short press
			1 Secondary closure

# 5 LCD screen display

Seri al numb er	Informatio n item	type	Intr oduc tion s
6.	Battery power	blen d	Displays the current battery charge as an en ergy column+Percentage presented.
			The main switch is turned on, and the battery power is displayed. During charging, the energy column is displayed dynamically.
7.	Charging power	nume rica 1 v alue	When charging, "POWER IN"The icon lights up a nd shows the charging power.
8.	DC output powe r	nume rica l v alue	After the master switch is turned on, "DCOUT "Icon lights up and displays the total DC o utput of the Use power.
9.	USB/Wireless c harging output power	nume rica 1 v	After the master switch is turned on, "USBOU T"The icon lights up and displays the USB-A, USB-CThe total power output of the three wi

		alue	reless charging.
10.	AC output powe r	nume rica l v alue	After the AC output switch is turned on, " AC OUT"The icon lights up and displays the communication Total used power output
11.	Lighting lamp	icon	Light on, light bulb icon on
12.	fan	icon	Core ≥ detected45 Degree or power ≥ 40%After the rated load, the fan starts, Fan icon lights up
13.	Temperature ala rm	icon	The temperature of the cell is detected to reach the set protection value, such as the charging protection temperature value. The exclamation mark icon flashes if the disc harge temperature protection value is reachedOf ten bright.

# 6 Product function and performance

6.1	Battery	pack	characteristics
-----	---------	------	-----------------

project	Minimu	standar	Maximu	Introductions
	m	d	m	
Voltage	16.8V	22.2V	25.2V	
capacity	21.80Ah	23.4Ah 519.48Wh		<pre>Battery Pack Factory Capacity:0.5CD ischarge ≥21.8Ah(0.2C Charge to25.2V, 0.02CCurrent cutoff,0.5Cdischarge To 16.8 V, resulting capacity)</pre>
Battery Pack Low Voltag e protect	17.8V	18. 3V	18.8V	When the battery pack voltage is b elow this value, stop discharging(Th rough the Lord Control)
Charging hig h temperatur e protection	45℃	50°C	55℃	Battery temperature exceeds this valu e, stop charging, charging protection diagram Exclamation point flashing;
Charging hig h temperatur e protection Post-recovery	40℃	45℃	50℃	After the high temperature protectio n stops charging, it returns to th is temperature and automatically rec overs. Recharging;

Low temperat ure protecti on for char ging	−5°C	0°C	5°C	Battery temperature below this value, stop charging, charging protection diagram Exclamation point flashing
Low temperat ure protecti on for char ging Post-recovery	0°C	5°C	10℃	After the low temperature protection stops charging, it returns to thi s temperature and automatically reco vers. Recharging
High tempera ture dischar ge protectio n	60℃	65 <i>°</i> C	70℃	Battery temperature exceeds this valu e, stop discharge Discharge protectio n icon Exclamation point
High tempera ture dischar ge protectio n Post-recovery	55℃	60℃	65℃	High temperature protection after te rmination of discharge, return to t he temperature, you can press Key recovery
Discharge cr yogenic prot ection	-10℃	-15℃	-20℃	Cell temperature below this value, stop discharge, discharge protection diagram Exclamation mark often bright
Discharge cr yogenic prot ection	-15℃	-10℃	-5℃	Low temperature protection after t ermination of discharge, return to the temperature, you can press
Post-recovery				Key recovery

# 6.2 DCinput(Charge) Characteristic

project	Minim um	stand ard	Maxim um	Intr oduc tion s
DC Charging				SupportAC Adapters, car chargers, PV,
mode				
PV Input por		1 indi		
t		vidua		
		1		
DC Input por		1 indi		
t		vidua		
		1		
DC Input vol	12V	25V	26V	

tage				
DC Input cur		4A	8.5A	Standard25V4A adapter
rent				
DC Input pow			105W	
er				
PV Input vol	12V	18V	26V	
tage				
PV Input cur		6A	8.5A	
rent				
PV Input pow			105W	
er				
Car charging	12V		15V	
input volt				
age				
Car charger		8A	8.5A	
input curr				
ent				
Car charger		100W	105W	
input powe				
r				
Multiple cha		Not su		When charging, only one input mode ca
rging at th		pported		n be selected to charge the product.
e same time				
Charge and		Not su		Allowed when chargingDC,USB, Not Allow
put		pported		edAC discharge

# 6.3 ACOutput characteristics

project	Minimu	standa	Maximu	Intr
	m	rd	m	oduc
				tion
				S
AC Output J		2		Meiji
ack				
AC power tr		500W	510W	Pool Set Voltages 20.4 $^{\sim}$ 25.2V PF
ansfer				1.OR Load
Output peak		1000W		Protection Off Output after Maximum
power				Power Continues 200 ms
AC Out Wave		sine w		Resistance R load
		ave		
THDV		5%		Resistive belt
AC Frequency	59HZ	60HZ	61HZ	
No-load outp	105V	110V	115V	

ut voltage				
Output volta ge with loa d	100V	110V	120V	
Inverter eff iciency	85%	87%		Load current at rated voltage 40%, 60%, 80%, 100% The Average Efficiency of Four Poi nts with R Load Plate End
AC Effective Output Cap acity amount	400Wh			Ambient temperature 25 ± 2 degree s, rated power test;
AC Overload Protection	510W	55OW	590W	<ul> <li>ACThe load power is greater than the5 50WContinuedBSPost-trigger overloadProtecti on, OffAC, Key Recovery</li> <li>DC+USB+ACThe load power is greater th an the550WPost-trigger overloadProtection , OffAC, ReservationsDC/USBOutput, key recovery complex</li> </ul>
Inverter ove rtemperature protection	85℃			Turn off the AC output, button re covery

# 6.4 DC5525 + Flare Output Characteristics

project	Minimu m	standa rd	Maximu m	Intr oduc tion
				S
DC5525 Port		2		
Cigarette Li ghter Port		1		
Output volta ge	11.8V	12.8V	14V	
Output curre nt		10A		Two way 5525 + one way cigarette lighter total output
Output curre nt limiting protection	10. 1A	11.5A	13A	Turn off output, no damage to cir cuit, key recovery

Output short	Support	Turn	off	output,	no	damage	to	cir
circuit pr		cuit,	key	recover	су			
otection								

# 6.5 USB-AOutput characteristics

proj ect	Mini mum	standa rd	Maxi mum	Intr oduc
				tion s
USB A port		3		
QC3.0		Support		
Output power		18W		
5V No-load out put	4.7V	5V	5.5V	
5V Full Load Outputer	4.5V	5V	5.5V	
5V Positive Cu rrent		3A		
9V No-load out put	8.7V	9V	9.6V	
9V Full Load Outputer	8.6V	9V	9.5V	
9V Positive Cu rrent		2. OA		
12V No-load Ou tputer	11.6V	12	12.6V	
12V Full Load Outputer	11.5V	12V	12.6V	
12V Positive C urrent		1.5A		
Automatic ident ification		Yes		Output voltage and current accordin g to different load
Output current limiting prot ection	3.1A	3. 8A	4.5A	Turn off the output, without damag ing the circuit, automatic recovery
Output short c ircuit protecti on		Support		Turn off the output, without damag ing the circuit, automatic recovery

# 6.6 USB-COutput characteristics

proj	Minim	standa	Maxim	Intr
ect	um	rd	um	oduc

				tion s
USBC port		1		
PD3,0		Support		
Output power		60W		
5V No-load out	4.6V	5V	5.5V	
put				
5V Full Load	4.5V	5V	5.5V	
Outputer				
5V Positive Cu		ЗA		
rrent				
9V No-load out	8.6V	9V	9.5V	
put				
9V Full Load	8.5V	9V	9.5V	
Outputer				
9V Positive Cu		ЗA		
rrent				
12V No-load Ou	11.6V	12V	12.6V	
tputer				
12V Full Load	11.5V	12V	12.5V	
Outputer				
12V Positive C		ЗA		
urrent				
15V No-load ou	14.6V	15V	15.6V	
tput				
	14.5V	15V	15.6V	
output				
15V Positive C		ЗA		
urrent				
	19.7V	20V	21V	
tput	1.017	0.014	00.01	
20V full load	19V	20V	20.8V	When the power is $\leq$ 10%, 20V ou
output		2.4		tput is not supported.
20V Positive C		3A		
urrent Automatic ident		Vez		Output voltage and surrant according
ification		Yes		Output voltage and current accordin g to different load
Output current	3.1A	3. 8A	4.5A	Turn off the output, do not damag
limiting prot	J. 1A	J. 0A	<b>т.</b> JA	e the circuit, self-recovery
ection				S the circuit, bell recovery
Output short c		Support		Turn off the output, do not damag

ircuit prote	cti		е	the	circuit,	self-recovery
on						

# 6.7 Wireless charging and output characteristics

project	Minimu	standard	Maximu	Introductions
	m		m	
Wireless chargi		1		
ng port				
Output power		10W		
Output voltage	8.8V	9V	9.3V	
Output current	0.8A	1.1A	1.3A	
FOD		Support		
Temperature pro	60°C	65℃	70℃	Turn off the output, without damag
tection				ing the circuit, automatic recovery

## 6.8

## Energy saving and environmental protection characte

## ristics

project	Minim um	standa rd	Maxim um	Intr oduc tion s
Automatic sh utdown		Support		The load power is ≤ 5 W; Continuo us 8 H Automatic Shut Down
Whole machin e working i dle Power consum ption		500mA	650mA	Battery pack output22.2V, OpenDC.USB.ACMe asuring batteryB+ End access
When the wh ole machine shuts down since Electricity consumption		≤1mA		
Runtime nois e			75db	Less than 35db when fan free and 1 ess than 75db when fan starts

## 6.9 Other

project Minim standa Maxim Intr
---------------------------------

	um	rd	um	oduc tion
				S
Lighting pow er		5₩		Surface light source
Illuminant b rightness		600LM		Distance 20CM Test
Illuminant c olor tempera ture		3000K		
Lights dorma ncy		8H		After opening, no open DC, USB, AC within 8 H Yes, turn off the lights to sleep;

# 7 Working environment

project	Minimum	standa rd	Maxim um	Intr oduc tion s				
Charging ope rating tempe rature	0°C	25°C	40°C	environmental temperature				
Discharge op erating temp erature	-10°C	25℃	40°C	environmental temperature				
Storage temp erature	-20°C		45°C					
Working humi dity	10%		75%					
Storage humi dity			45%					
altitude			2000 ri ce					
Test ambient temperature	23°C	25°C	27°C					
If the battery is stored for more than three months, please use the c harger with the specified parameter range to charge and discharge the p roduct once. Charge to50%;								

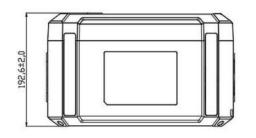
# Compliance with certification or testi ng standards

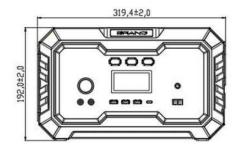
According to the needs of customers can do the following cer tification or record: UL2743 report / FCC-sDOC / FCC-ID / UN 38.3 / MSDS / UN box performance list / dangerous package certificate, the cost is the customer's responsibility.

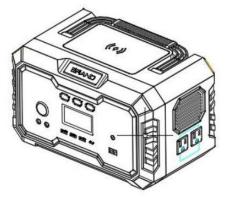
Certific ation P rogram	Certificatio n Implement ation Stand ards		
FCC-sDOC	FCC 47 CFR Part 15 Subpart B: 2022		
FCC-ID	FCC Part15 Subpart C, Paragraph 15.209		
UL2743	UL 2743. Edition 2. Revision 2020		
UN38.3	ST/SG/AC. 10/11/Rev. 7/Amend. 1		

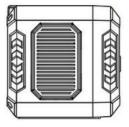
## 9 Product physical parameters

The maximum size of the machine appearan ce: 319.4 \* 192.6 \* 192mm, 2 mm Body weig ht: 6.14KG,









Seria 1 nu mber	name	Spec ific atio ns	Numb er
1	G500M	500W/519.48Wh	1
2	User's manu al	G500M: 142*210mm	1
3	AC Fit	Miki 25V4A 100W	1

### 10 Packing list

### 11 Note

2. Do not put the product into water or rain!

#### 3.

Do not heat the product or approach the fire source! Do not di sassemble or transform the product without authorization! Do not hit the product hard! Otherwise, it may cause the battery to ov erheat, short circuit, fire or function failure, short life and other hazards.

#### 4.

Do not use or place this product in high temperatures (in h ot sunlight or in very hot cars), otherwise it may cause ov erheating of the battery, fire or failure of function, short life, and other hazards.

5. Prohibit disassembly and disassembly of power supply

6. Prohibit short circuit of the power battery

7.

Prohibit the use of non-dedicated charger to charge the power s upply, it will be dangerous;

#### 8.

Do not directly touch the leaking battery, the leakage of electr olyte will cause skin discomfort, in case the electrolyte enters the eyes, rinse with water as soon as possible, do not rub t he eyes, and quickly sent to the hospital;

### FCC STATEMENT :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

**Warning:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

#### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.