

Warranty Service

The charger is warranted for a period of 12 months from the original date of purchase, for any issues which relate to technical function or product quality. If the charger is found to be opened or non-functional due to careless handling or unauthorised repair, that will invalidate the warranty. We reserve the right to repair or replace this unit at our discretion after full inspection of the item and any potential faults.

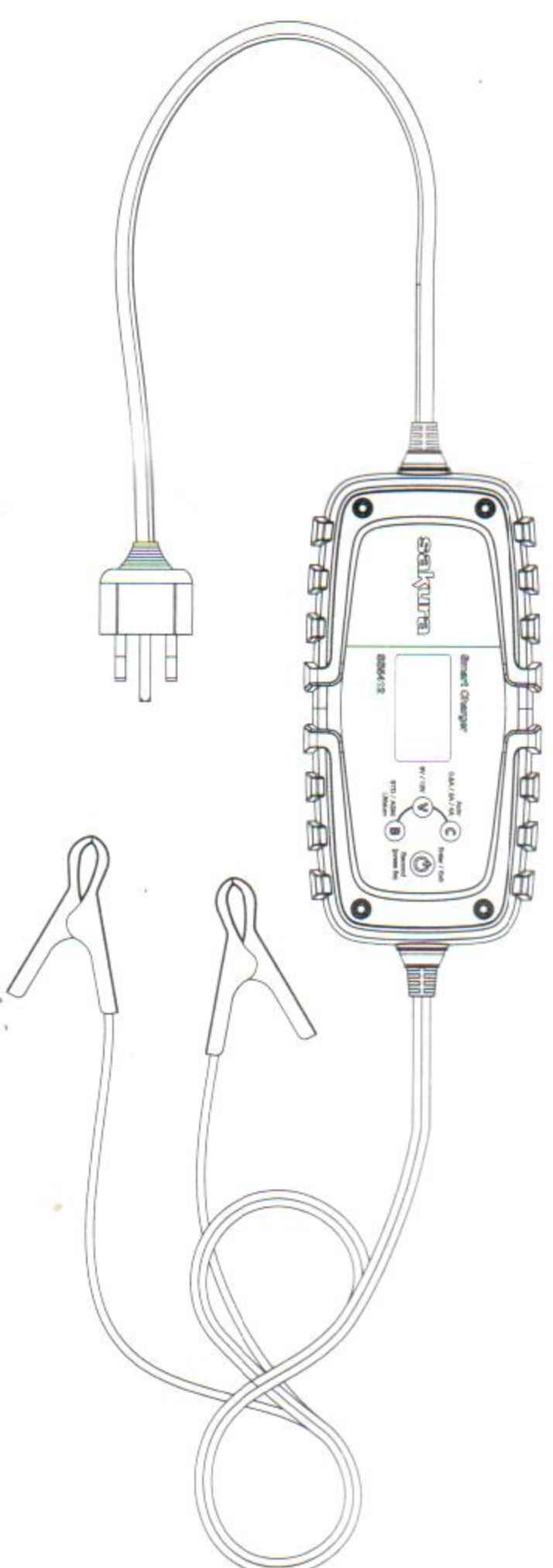
- This product is designed for domestic use and is not a commercial product
- Sakura (Saxon) disclaims any liability for damage arising from misuse of this product
- Always read all instructions carefully before using the charger
- Must only be used by a responsible adult
- Keep away from and out of the reach of children
- This product is not a toy and should not be used as such
- This product is designed for domestic use and is not a commercial product
- Sakura (Saxon) disclaims any liability for damage arising from misuse of this product

Important Safety Information

WARNING: Read all instructions and warnings prior to using this product. Improper use of this product may result in product damage, excess heat, toxic fumes, fire or explosion, for which the manufacturer is not responsible.

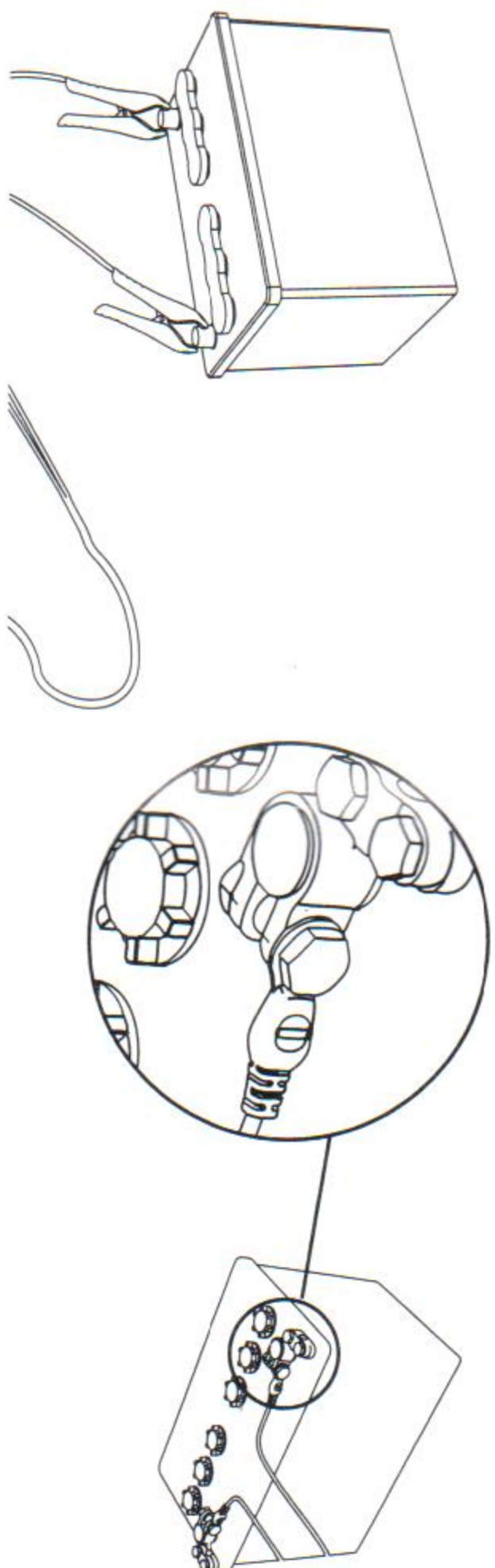
User Manual – 4.0A Intelligent Battery Charger

Model : SSS412



Suitable for: 6V & 12V DC battery charging & maintenance including lead-acid, AGM and Lithium batteries. Can be used on a variety of vehicles including cars, motorbikes and boats.

Please read the following safety and operating instructions carefully.



1. Plug in the charger, keeping the mains power supply turned off.
2. Connect the red clamp/'O' ring to the positive terminal '+' and connect the black clamp/'O' ring to the negative '-' terminal.
3. Turn on mains power & select the correct charging mode
4. When charging is complete, turn off mains power and disconnect. Remove the black clamp/'O' ring first & then the red clamp/'O' ring from the battery

Lead-acid battery Operating Instructions:

The power cord should be disconnected when connecting or disconnecting the battery leads.

Warning – This product should not be used on non-rechargeable batteries.

Model	SS5412			
Specification	6V/2A	6V/4A	12V/2A	12V/4A
Rated AC Input voltage	220V AC-240V AC/50HZ/60HZ			
Max charging voltage	7.3V			
Starting voltage	1.5V			
Max input power	17.5W	35W	35W	70W
Max charging current	2.0A	4.0A	2.0A	4.0A
Environment temperature	0° - 40°			
Storage temperature	0° - 60°			
Battery type	6V/12V lead acid battery(STD, Maintenance Free, AGM and Lithium battery)			
Size	200mm (L) x 95mm (W) x 51mm (D)			
Weight	640g			

Specifications:

Warning:

- When not in use, store the charger in a dry area to avoid any possible moisture damage
- You should not attempt to open the battery charger. Any attempt at modification will result in the loss of your manufacturers warranty
- Battery acid is corrosive and can cause burning. If skin comes into contact with any acid, rinse and seek immediate medical advice
- Whilst charging, it's possible that the battery may emit gasses. Ensure that there is no potential of sparks or flames near the engine whilst in use
- Never use the charger if cables or the unit itself is damaged
- Never charge from a damaged or frozen battery
- Be sure to turn off the power source before disconnecting clamps from the battery. Likewise, only turn on power once clamps have been fitted
- Make sure that the cables and battery do not come into contact with water
- Do not place the charger on the battery whilst charging
- Always provide suitable ventilation when charging and do not cover the charger
- The charger may become slightly hot when in use which is normal
- Do not use in any areas which are accessible to children
- Do not leave the charger unattended for long periods
- Do not use the charger in rain or damp conditions



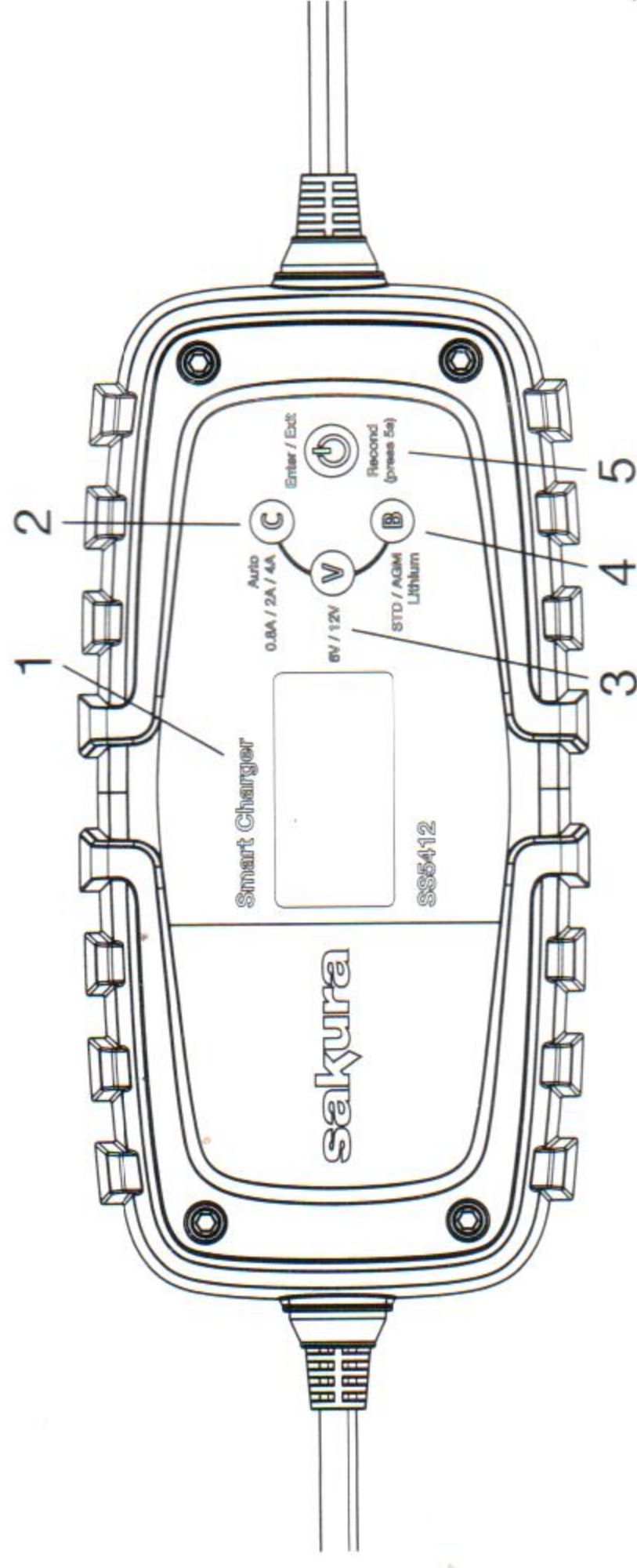
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Selecting the correct charging mode

1. LCD Screen: Display charging codes and icons
2. Current Selection Button: 0.8A, 2A, 4A or automatic selection
3. Voltage Selection Button: 6V, 12V
4. Battery Type Selection: NORM / AGM / LITHIUM
5. Enter / Exit Button: Start Charging, Stop Charging



Connect Charger to the Battery according to the Operation Instructions, then choose the correct Charging Mode outlined below. Press 'Enter/Exit' button to start the requested Charging Mode.

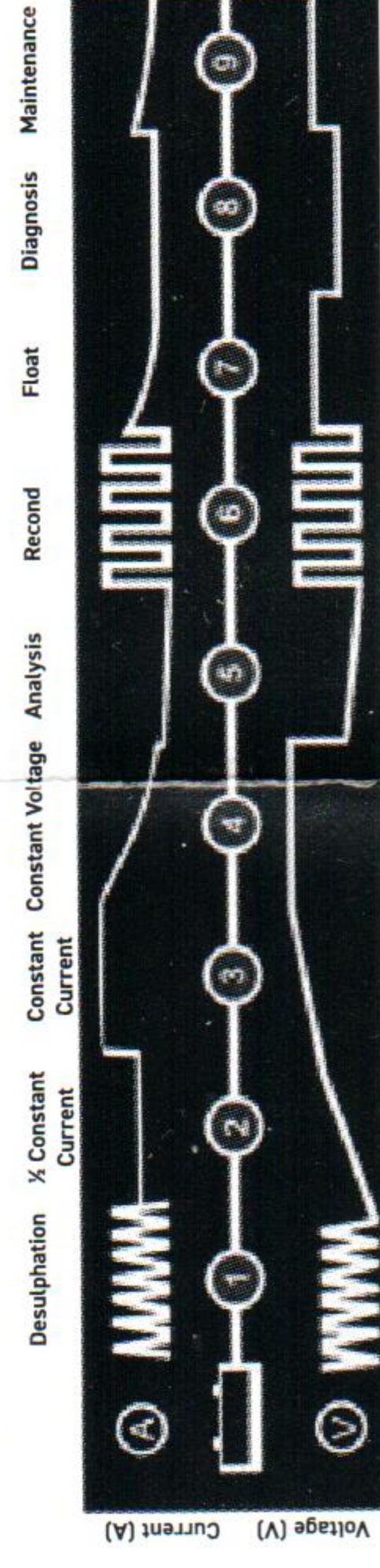
Charging modes:

Maximum Rating of Battery: 12V

AutoMode: The intelligent charger automatically selects the most appropriate charging type depending on its analysis of the battery's condition.

Step 1 Voltage Selection "V"	Step 2 Battery Type Selection	Step 3 Charging Mode Selection "A"	Step 4 Start Charging	Charging Status	Applicable Battery Capacity (Ah)		
6V	STD	0.8A	Enter/Exit	6V Maintain Mode 0.8-14Ah	0.8-14Ah		
		2A		6V 2A Charging Mode	1.3-60Ah		
		4A		6V 4A Charging Mode	2.6-120Ah		
		AUTO		6V Auto Mode	/		
12V	Lithium	4A	Enter/Exit	12V Auto Mode	2.6-120Ah (LFP)		
		0.8A		12V Maintain Mode 0.8-14Ah	0.8-14Ah		
	2A	12V 2A Charging Mode		1.3-60Ah			
	4A	12V 4A Charging Mode		2.6-120Ah			
	AUTO	12V Auto Mode		/			
	AGM/STD	RECOND		RECOND	Press the enter/exit button for 5 seconds to enter the Recond mode	12V Recond Mode	/

Charging steps



Pulse / Desulphation: Detects sulfurated batteries, then removes sulfuret from the lead plates of the battery by Pulsing Current and Voltage.

1/2 Constant Current: Charging battery to 25% capacity by 1/2 Current.

Constant Current: Charging battery to 50% capacity by max Current.

Constant Voltage: Charging battery to 75% capacity by Constant Voltage.

Analysis: Analysing power capacity. If the battery can't store power then it should be replaced.

Recond: Restores power capacity in a stratified battery to sustain ultimate battery life.

Float charge: Charging battery to 100% capacity by Constant Voltage, and keep battery voltage with maximum level.

Diagnosis: To check if battery has been fully charged.

Maintenance: The battery has been fully charged.

LCD screen icon meanings

	Flicking: clips are not connected to the battery Illuminated: clips are connected to the battery
	Charger clamps are not connected correctly. Reverse polarity detected. Re-connect the red clip to the positive and black clip to the negative
	Battery Capacity Percentage
	Recond Mode
	Winter Mode
	Maintain Mode
	6V Charging Mode
	12V Charging Mode
	Battery Type Switch Mode
	Function Selection

Code display

AUT	Auto mode	F01	Short-circuit protection
PUL	Pulse mode	F02	Over-voltage protection
REC	Recond mode	F03	Over-current protection
FUL	Battery fully charged	F04	Over-temperature protection
CHE	Analysis mode	F05	Overtime charging
		F06	Reverse connection protection

Safety features

- The charger will automatically enter 'Float' mode to prevent overcharging when the battery is fully charged.
- The Charger will stop charging automatically if a short circuit occurs.
- The Charger has a built in temperature protection mode, which it will enter automatically if the unit overheats. When the temperature has dropped to a normal level, the charger will restart normal charging automatically.

The charger will only function if the clamp voltage is 1.5V or higher. If lower then this unit will not function.

- Do not charge the battery whilst the engine is turned on.
- Lithium Mode is only suitable for Lithium Iron Phosphate Battery
- Choose the correct charging voltage according to the ratings on your battery.
- When charging a battery, do not close the bonnet, door or the cover to prevent any possible cause for a high current or short circuit.

Troubleshooting

NO	Faults	Troubleshooting
1	When connected there is no power	Check if the product is turns on when plugged into the power supply.
2	Icon is in constant flash mode	Check the battery terminals connected correctly with good contact.
3	Icon is in constant mode	The clamp is reversely connected to the positive and negative terminals of the battery. Modify the connection.
4	Charging mode cannot be altered or the switch button is insensitive	This could be a potential wrong selection. Turn the unit off at the mains power supply and back on again. If there is still an issue the switch is potentially damaged and you should contact the manufacturer.