



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.



Never dispose of electrical equipment or batteries in with your domestic waste. If your supplier offers a disposal facility please use it or alternatively use a recognised re-cycling agent. This will allow the recycling of raw materials and help protect the environment.



Chargestar T26 / T45



05284 / 86

FOR HELP OR ADVICE ON THIS PRODUCT PLEASE CONTACT YOUR DISTRIBUTOR

Ref:020810

Please read and fully understand the instructions in this manual before operation. Keep this manual safe for future reference

DECLARATION OF CONFORMITY

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WE
SIP LTD
GELDERS HALL ROAD
SHEPSHED
LOUGHBOROUGH
LEICESTERSHIRE
LE12 9NH

Declare that the

Chargestar T26 SIP pt No. 05284
Chargestar T45 SIP pt No. 05286

Complies with the following EEC Directives their supporting Statutory
Instruments and the relevant standard where applicable:

73/23/EEC

And Amendments
93/68/EEC

Low Voltage Directive

EN 60335-1:2002
EN 60335-2-29:2004

89/336/EEC

And Amendments
2004/108/EC

EMC Directive

EN 55014-1:2006
EN 55014-2:1997+A1
EN 61000-3-2:2006
EN 61000-3-3:1995+A1+A2

Signed:



Mr P. Ippaso - Director - SIP (Industrial Products) Ltd

Date: 16 June 2010

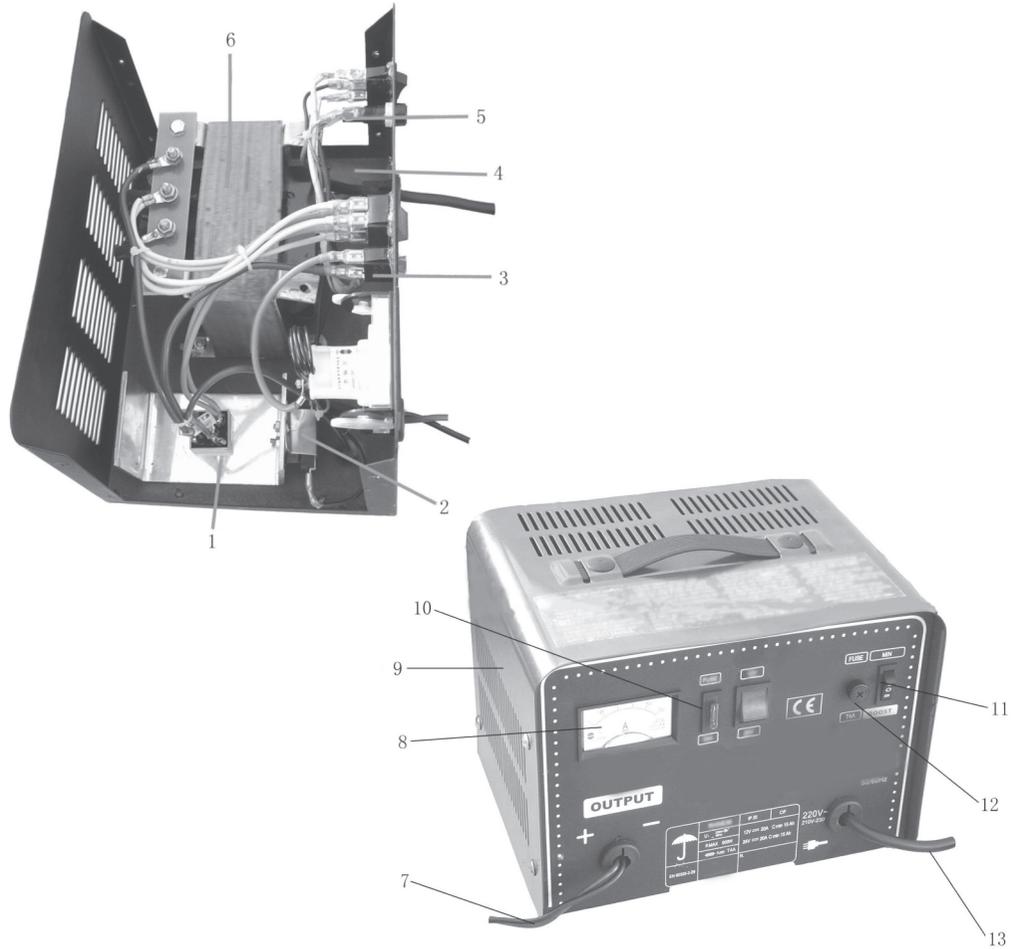


Safety Instructions.

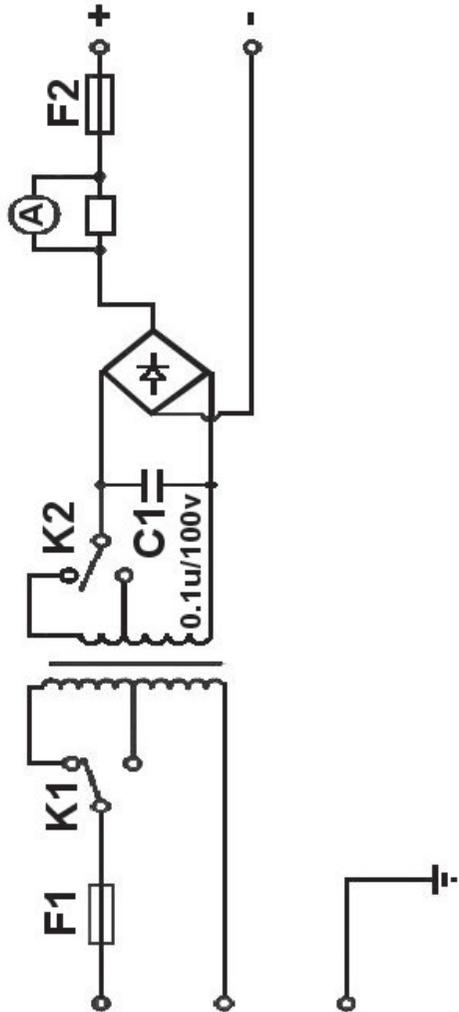
1. This Instruction Manual contains important safety instructions. Please keep for future reference.
2. The Chargestar T26 and T45 are only designed for the charging of lead-acid batteries in Table 1, it should not be used as a DC power source. It should not be used to recharge non-rechargeable batteries. To do so may cause fire, electric shock, etc.
3. The charger is designed to be powered from a domestic mains power outlet (230v ~ 50Hz), which is reliably connected to the buildings ground (earth) point. If the supply cable needs to be extended, ensure the cross-sectional area of the wire is of a sufficient size for the supply of current over the distance required.
4. If the charger is interrupted or damaged due to heavy impact etc., the battery should be taken off charge immediately.
5. Do not dismantle the charger. If repairs are required, they should be performed by a suitably qualified person. Incorrect reassembly may result in a fire hazard and / or electric shock. Always disconnect the charger from any connected battery and the mains supply prior to cleaning the casing.
6. When connecting the charger to a vehicle's battery. Always connect the battery terminal not connected to the chassis first. The other connection is to be made to the chassis as far away as practical from the battery and fuel line (a spark can be generated when connecting the second clip which can ignite battery or fuel gases). The battery charger is then to be connected to the mains supply. Once charging is complete, disconnect the battery charger from mains supply first, and then remove the chassis connection followed by the battery connection.
7. During charging, batteries give off some hydrogen and oxygen creating a highly explosive mix. Ensure adequate ventilation exists and avoid sparks, smoking, etc...
8. During battery maintenance ensure adequate clean water is available in the event of an acid spill. The liquid inside batteries is highly corrosive therefore ensure that it is not allowed to make contact with the skin (especially eyes). In the event of contact, flush the area with clean water and immediately consult a doctor.
9. Lead-acid batteries store a large amount of energy. Short-circuiting the battery or charger terminals will cause the battery to try and release this energy immediately, which can result in fire or personal injury. Prevent any metal object (or other conductive material) from touching the + and - terminals of the charger or battery at the same time.

GETTING TO KNOW YOUR CHARGER

NOTES



1.	Rectifier	8.	Ammeter
2.	Thermostat	9.	Main cover
3.	Fuse holder	10.	Fuse
4.	Mains lead bush	11.	Amperage selector (output)
5.	Fuse holder	12.	Fuse
6.	Main transformer	13.	Mains lead
7.	Output cable		



Specifications and Scope of Applicability (see table 1 below):

Table 1

Model	Minimum capacity of lead-acid battery suitable for charging
05284	Min.: 12v 30Ah, Min.: 24v 20Ah
05286	Min.: 12v 30Ah, Min.: 24v 30Ah

Functional Characteristics.

The battery charger is equipped with protection in case of:

- overloads (too much current delivered towards the battery).
- short circuit (charging clamps set in contact with one another).
- polarity reversal of the battery.

For battery chargers equipped with fuses, it is necessary, in case of substitution of fuses, to use spares having the same nominal current value as the original fuse.

WARNING: If fuses with current values different from those given are used; a fire hazard and / or electric shock and damage to the charger and anything connected to it could occur. For the same reason do not substitute the fuse with copper (or other materials) to bridge the fuse terminals.

The substitution of the fuse is to be done when the charger is disconnected from the mains supply.

Technical Indexes.

Input voltage: 230V ~50Hz
output current (see table 2)

Table 2

Charging output voltage.	05284	05286
12v	20 amp (Max.)	45 amps (Max.)
24v	12 amp (Max.)	45 amps (Max.)

Operating Environment and Placement.

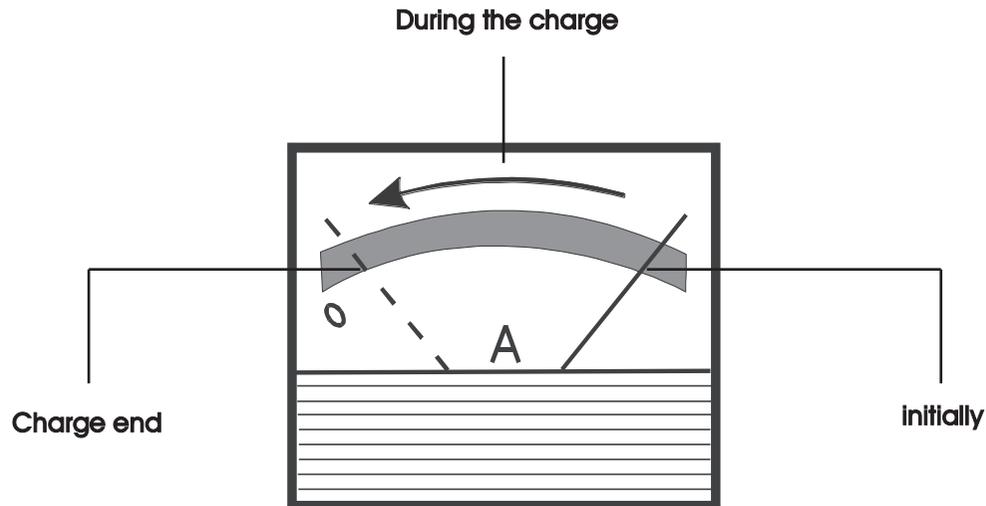
1. The charger should be placed in a well-ventilated and dry place free from direct sunshine and corrosive gas and away from heat source. Do not expose charger to rain and snow. **Warning:** it should be as far as possible away from battery and on a flat, stable surface to avoid falling.
2. It is unsafe to directly place the charger on the battery or battery on the charger.

OPERATING INSTRUCTIONS...cont

3. During charging, if the temperature of battery exceeds 40°C, current should be reduced. If temperature exceeds 45°C, charging should be stopped. Charging should not recommence until after the temperature returns to below 40°C.
4. Never place the charger directly on or against the vehicle.

Method of Use.

1. Check and top up battery liquid if required.
2. Remove the battery caps to allow any excess gas to escape and to prevent the case bursting.
3. Turn the output voltage switch of the charger to the position corresponding to the voltage of the battery.
4. Select the output current switch to the desired position.
5. Clamp the red clip of charger to the + terminal of battery and black clip to the - terminal of the battery and confirm that connection is correct. If the battery is still connected to the vehicle - The battery terminal not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line. The battery charger is then to be connected to the supply mains and turned on.
6. After the charger clip is attached, slightly rotate it so as to remove any dirt or oxidation, this will ensure a good contact.



WARNING / GUARANTEE

WARNING:

1. Before use, carefully read the instruction manual and retain for future reference.
2. The chargestar T26 & T45 charger is not weather proof. So care and common sense must be exercised if using outdoors. Do not expose to moisture.
3. Always switch off power at the mains supply before connecting or disconnecting the battery charger.
4. Never smoke, cause a spark or charge near an open flame. Never allow conductive materials to short circuit the charger or battery terminals.
5. Always use in a well-ventilated space.
6. This appliance is not intended for use by young children or infirm persons without supervision and should always be used responsibly and stored in an appropriate place to prevent misuse.
7. If the mains lead is damaged, it must be replaced by the manufacturer, an authorized service agent or a suitably qualified person in order to avoid any potential hazards.

Guarantee:

This sip battery charger is covered by a 12 month parts and labour warranty covering failure due to manufacturers defects. This does not cover failure due to misuse or operating the machine outside the scope of this manual.

In the unlikely event of warranty claims, contact your distributor immediately. *Proof of purchase will be required before any warranty can be honoured.*