


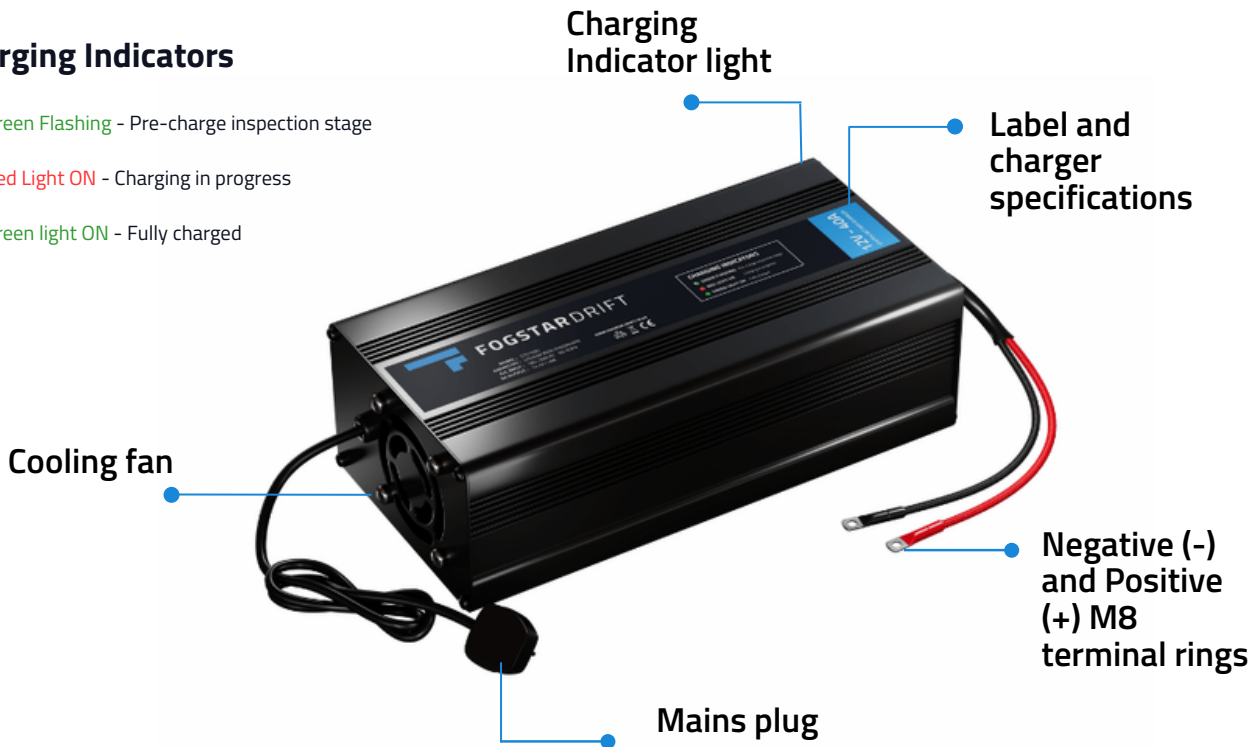


## Charging Indicators

-  **Green Flashing** - Pre-charge inspection stage
-  **Red Light ON** - Charging in progress
-  **Green light ON** - Fully charged



## Product Specification

Model	STS1500
Battery Chemistry	LiFePO4
Voltage	12V
Output Voltage	14.4V
Output Current	40 ± 0.2A
Input Voltage	180 ~ 260 Vac

## Input Characteristics

Rated Input Voltage	220 Vac
Input Voltage Range	180 ~ 260Vac
AC Input Voltage Frequency	50~ 60 Hz

## Product Characteristics

Size	230 (L) x 114 (W) x 73 (H) mm
Material	Aluminium
Input Socket	AC line - 1.3m
Output Socket	DC line - 0.85m
Net Weight	2.3KG

## Charge Stages

CC (constant current)	≤14.4Vdc, 40A
CV (constant voltage)	14.4Vdc, 40A ↓
Transition Current	4A
Power Efficiency	≥93%

## Health and Safety







Electric Strength Test	Input - Output	1500Vac/ 1min ≤ 10mA	Withstand DC voltage of 1500V, 1 minute, leakage current ≤ 5mA, no breakdown or arcing.
	Input - Earth		
Isolation Resistance	Input - Output	≥ 10MΩ@500Vac	Input to output, input to housing 500VDC & normal air pressure, relative humidity 90%.
	Input - Earth		

## Environmental Conditions

Operation Temperature	-30 ~ +45°C
Humidity	5 ~ 95%
Storage temperature	-40 ~ +70°C
Cooling	Fan
Altitude	0 ~ 3000m



## Protection Characteristics

	<b>Over Voltage Protection</b>	Shuts down the supply when the voltage exceeds the pre-set level.
	<b>Software Over Voltage Protection</b>	Charger software limits the maximum output voltage to a level suitable for the battery system.
	<b>Thermal Protection</b>	Aluminium shell inside temp >65°C (Automatic shutdown) Transformer temperature >110°C (Automatic shutdown)
	<b>Current Limiting Protection</b>	If maximum current is achieved, the charger will restrict the flow to protect the system.
	<b>Short Circuit Protection</b>	Operational protection against excessive currents or current beyond the acceptable current rating of equipment.
	<b>Reverse Polarity Protection</b>	When output wires are reversely connected, the unit will not operate. Always connect the battery to the charger first, then connect the charger to the mains.