

The GYSFLASH 3.48 PL is an advanced charger designed to charge every 48 V lead-acid, «standard» lithium-ion (NMC, NCAM Li-Po, LCO, MCO, etc.) or Lithium-iron Phosphate (LiFePO4) batteries. It can also be used for recreational vehicles (electric bikes, electric scooters, electronic skateboards, electric hoverboard...), stationary devices such as UPS uninterruptible power supplies (medical devices, computer servers, alarms...), robotic equipment, drones, emergency lighting, etc. It has 5 separate intelligent charging programs.

DUAL TECHNOLOGY: LEAD-ACID & LITHIUM

• High performance, duty cycle of 100% at 3A (40°C).

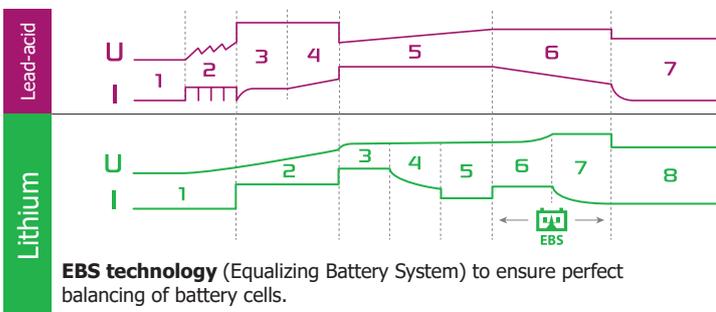
• 5 charging modes :

		Tension de charge	Description
Pb Lead-acid	48V	58,4 V	Charging of 48 V lead-acid type batteries from 6 Ah to 60 Ah.
LiFePO4 Lithium-Iron phosphate	48V	54,0 V (15S)	Lithium-ion battery charging LFP type from 3 Ah to 60 Ah with 15 or 16 cells in series.
		58,0 V (16S)	
LI-ION NMC, NCA, Li-Po, LCO, MCO, ...	48V	54,0 V (13S)	«Standard» Lithium-ion battery charger from 3 Ah to 60 Ah with 13 or 14 cells in series.
		58,0 V (14S)	

- In 48 V lithium charging mode, it is possible to choose between 58.0 V and 54.0 V charging voltages depending on the number of cells in the battery.
- Optimised maintenance charge, the charger can remain connected to the battery indefinitely without risk.
- Battery charging from 5 V.

100% AUTOMATIC CHARGE

- Extends the life and performance of Lead-acid, Lithium (LFP) and Lithium-ion batteries.
- Outside air temperture sensor for a full charge of the battery both summer and winter. The charger adjusts its charging parameters depending on ambient temperature.



Specific 7 step charging curve for each battery technology. Can be safely left connected without supervision.

Specific step charging curve that can be left charging without supervision.

«UVP* Wake up» function: reactivates a battery in protection after a deep discharge and automatically starts the charge.
*UVP : Under Voltage Protection

SAFETY

- Comprehensive protection: protection against short-circuit, reverse polarity and voltage overload. Spark prevention system.
- Automatic stand-by mode if the battery is disconnected.
- Integrated temperature sensor to prevent internal electronics' overheating.
- Simplified interface to prevent user errors.

ADVANCED INTUITIVITY

- Compact design, light and portable.
- Quick connector cable connection.
- Wall fixing option.
- Totally dust- and liquid-tight housing (IP 65).



		I _{charge}				Ondulation / Ripple	Charging curve		kg	mm		IP	
220-240 V AC	195 W	3 A	48 V	6 - 60 Ah (Pb) 3 - 60 Ah (Lithium)	<0.5 mA	<100 mV Rms	IU ₀ U	7 step (Pb) 8 step (Lithium)	1,1	221 x 111 x 58 mm	365 x 195 x 70 mm	IP 65	1,9 m