LiFETIDE MDIUM LOADSHEDDING KIT
INSTALLATION GUIDE

Installing an inverter and a lithium iron phosphate (LiFePO4) battery can be a straightforward process if you follow the right steps.

Plan **Installation**

Start by determining the location for the inverter and battery, taking into consideration accessibility for maintenance, proper ventilation, and protection from moisture.

Mount **Kit**

Mount the inverter in a convenient and accessible location.
Place the LiFePO4 battery in a well ventilated area using the supplied brackets, ensure they are all level.

Start with **DC Connection**

Connect the battery to the inverter using 35mm cabling, connecting the positive and negative cables to the designated terminals. Make sure all connections are secure and tightened.

PRE-CONFIGURED LOAD SHEDDING KIT

LiFeTide LiFePO4 Batteries are configured to work optimally with the Growatt SPF 5000 ES series batteries.
See a full table of recommended configuration settings on the back of this sheet.

Battery **Type (005)**

When powering on the system for the first time (from batteries - **NO AC**) go to program **005** at select "LI"

Setting **Protocol (036)**

After selecting "**LI**" in program 005 you will be taken to program **036**.
Set program **036** to "**L 01**"

Output **Priority (001)**

Go to program **001** to select Output Source Priority. Select program 1 (**OP.PR**) and then set "**UTL**" as the preferred option.

REMEMBER TO
REGISTER

WARRANTY TERMS

To activate your LiFeTide Warranty, product serial numbers, photos of the installation and an official electrical Certificate of Compliance is required.

ACTIVATE YOUR WARRANTY

To register your warranty go to the LiFeTide website and submit our warranty form along with all required proof of installation.

- ✔ Serial Numbers
- ✔ Electrical CoC
- ✔ Photos of Install
- ✔ Location and Date

SUPPORT CONTACT

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LiFETIDE MDIUM LOADSHEDDING KIT
KEY SETTINGS

Installing an inverter and a lithium iron phosphate (LiFePO4) battery can be a straightforward process if you follow the right steps.

DESCRIPTION	PROGRAM	CODE	SETTING	NOTES & COMMENTS
Battery Type	005	BATT	LI	Lithium Battery communicating with BMS
Communications Protocol (RS485)	036	PTCL	L01	Default Growatt Protocol that works with LiFeTide Batteries
AC output mode *This setting is only available when the inverter is in standby mode (Switch off). Note: Parallel operation can only work when battery connected	023	PRLL	SIG / PAL	When the units are used in parallel with single phase, please select "PAL" in program 23.
Output source priority: To configure load power source priority	001	OP.PR	UTL	Utility will provide power to the load. Battery will provide power when utility is unavailable.
Auto restart when overload occurs	006	LD.RS	DIS	Restart disable (default)
Charger source priority: To configure charger source priority	014	CG.PR	SNU	Solar energy and utility will both charge battery.
Utility charging time / AC Output Time	049 / 050	CHG TIM OUP TIM	0000	Allow inverter to charge and power the load all day, regardless of time.

Require **Assistance?**

Having a certified electrician install your LiFeTide Backup system ensures you peace of mind and backup in case of power outages, complies with regulations and ensures your warranty is valid. For more information visit **www.lifetide.co.za**

LiFePO4 BATTERY
CONFIG

RS485 COMUNICATIONS PORT

The LiFeTIDE batteries use RS485 to communicate with the Growatt SPF 5000 ES .

Communication and Settings

In order to communicate with the battery BMS, you should set the battery type to "LI" in Program 5. Then the LCD will switch to Program 36, which is to set the protocol type. Choose L01 to match the LiFeTide BMS.

✔ RS485B: The LiFeTide Batteries use RS485B Communication Protocol

✔ Some settings are configured automatically when you select "LI" battery Type

SUPPORT CONTACT

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