

# HYUNDAI

## BATTERY POWERED LAWNMOWER

Model HYM36Li



## User Manual

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1. GETTING TO KNOW YOUR MACHINE

1.1. How to read the manual.

1.1.1. Certain paragraphs in the manual contain particularly significant information and are marked with various levels of highlighting with the following meaning:

 <b>DANGER</b> Non-observance will result in the risk of serious injury or death to oneself or others.	 <b>WARNING</b> Non- observance will result in the risk of injury to oneself or others.	 <b>CAUTION</b> Indicates a hazard which, if not avoided, might result in minor or moderate injury.	 <b>NOTE</b> <b>NOTE or IMPORTANT</b> These give details or further information on what has already been said, and aim to prevent damage to the machine or cause other damage.	 <b>Read Manual</b>
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1.2. Getting to know the machine.

 <b>NOTE</b>	The images corresponding to the references are found on page 5 of this manual.
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1.2.1. This cordless lawn mower is designated with a rated voltage of 36 V. It is designated only to be used with battery pack and the respective battery charger.

1.3. Intended use.

1.3.1. This product is intended for mowing grass in domestic gardens only. It must not be used to mow unusually high, dry or wet grass, e.g. pasture grass; for shredding leaves or mulching. For safety reasons it is essential to read the entire instruction manual before first operation and to observe all the instructions therein.

1.3.2. This product is intended for private domestic use only, not for any commercial trade use. It must not be used for any purposes other than those described.

1.4. Improper use.

1.4.1. Any other use differing from the above mentioned ones could be hazardous and harm people and/or damage things.

1.4.2. Improper use of the machine will invalidate the warranty, relieve the manufacturer from all liabilities, and the user will consequently be liable for all and any damage or injury to himself or others.



## 2. SAFETY REQUIREMENTS.

2.1. Your machine must be used carefully.

2.1.1. Symbols have therefore been placed on various parts of the machine to remind you of the main precautions to be taken.

2.1.2. Their meaning is explained below. You are also asked to carefully read the safety regulations in the specific chapter of this manual.

2.2. Replace damaged or illegible labels.

 <b>DANGER</b>  <b>WARNING</b>	Failure to use this machine correctly can be hazardous for oneself and others.
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2.2.1. Read the instruction manual before using the machine.

2.2.2. If you are using the machine every day in normal conditions, you can be exposed to a noise level of 96 dB (A) or higher. Wear safety glasses and hearing protection.

2.2.3. Do not use longer blades.

2.2.4. Do not leave the machine in the rain (or in damp conditions).

2.2.5. Never throw used batteries into a fire - EXPLOSION RISK!

2.2.6. Read all safety warnings and all instructions.



2.2.7. Do not expose the battery to sunlight when the temperature exceeds 50°C.

2.2.8. Lithium battery. Never dispose of these batteries with household waste.

2.2.9. Do not wet.

2.2.10. Recyclable product.

## 3. SAFETY REGULATIONS

 <b>WARNING</b>	Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. The vibration value may vary according to the usage of the machine and its fitted equipment, and be higher than the one indicated. Safety measures must be established to protect the user and must be based on the load estimate generated by the vibrations in real usage conditions. In this regard, all the operational cycle phases must be taken into consideration, such as switching off or idle running.
 <b>NOTE</b>	The vibration value may vary according to the usage of the machine and its fitted equipment, and be higher than the one indicated. Safety measures must be established to protect the user and must be based on the load estimate generated by the vibrations in real usage conditions. In this regard, all the operational cycle phases must be taken into consideration, such as switching off or idle running.

### 3.1. General power tool safety.

#### 3.1.1. Work area safety.

- 3.1.1.1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- 3.1.1.2. Do not operate power tools in explosive atmospheres', such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- 3.1.1.3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

#### 3.1.2. Electrical safety.

- 3.1.2.1. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- 3.1.2.2. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

#### 3.1.3. Personal safety

- 3.1.3.1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- 3.1.3.2. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- 3.1.3.3. Prevent unintentional starting. Ensure that the machine is switched OFF before inserting the battery, picking up or carrying the power tool. Carrying the power tool with your finger on the switch or fitting battery with the switch ON can cause accidents.
- 3.1.3.4. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- 3.1.3.5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 3.1.3.6. Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- 3.1.3.7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust related hazards.

#### 3.1.4. Power tool use and care.

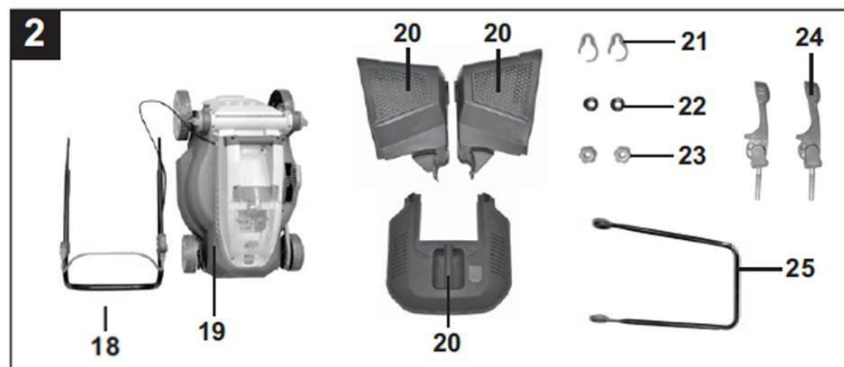
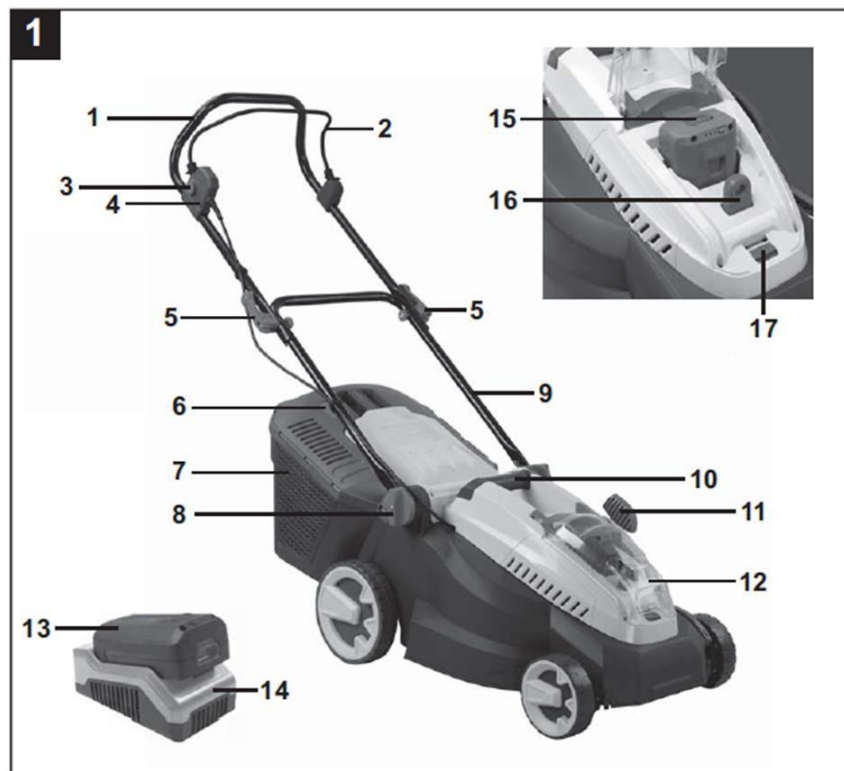
- 3.1.4.1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- 3.1.4.2. Do not use the power tool if the switch does not turn it ON and OFF. Any power tool that cannot be controlled with the switch is dangerous and MUST be repaired.

- 3.1.4.3. Remove the battery from its compartment before making any adjustments, changing accessories, or storing the power tool. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- 3.1.4.4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- 3.1.4.5. Maintain power tools. Check for misalignment or obstruction of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- 3.1.4.6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to become jammed and are easier to control.
- 3.1.4.7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Using the power tool for operations other than those intended could result in a hazardous situation.

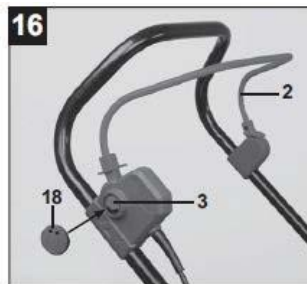
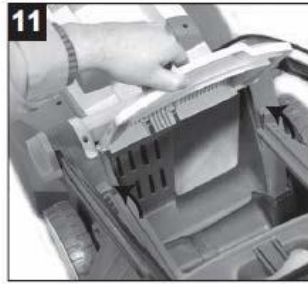
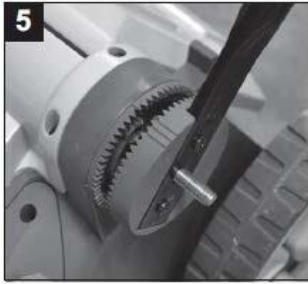
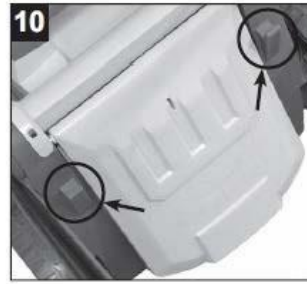
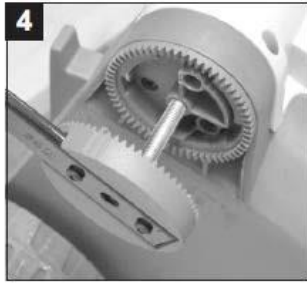
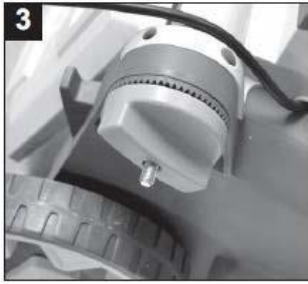
#### 3.1.5. Service.

- 3.1.5.1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

#### 4. MACHINE PARTS



1	Upper handle	2	Operator presence Handle	3	Lock-out button	4	Power switch	5	Handle release
6	Grass level indicator	7	Grass catcher	8	Handle height adjuster	9	Lower handle	10	Carrying handle
11	Cutting height adjuster	12	Battery compartment cover	13	Battery	14	Battery charger	15	Battery
16	Safety key	17	Battery cover release catch	18	Upper handle assembly	19	Base unit	20	Grass collector
21	Grass collector cover	22	Lower handle release - Washers	23	Lower handle release - Nuts	24	Lower handle release levers	25	Lower handle





## 5. LAWNMOWER ASSEMBLY



### WARNING

The safety rules must be observed during machine use. Before starting the Machine, read the instructions regarding personal safety and the safety of unauthorized persons. Keep the instructions in a good state for future use

#### 5.1. Assembly of the handle;

- 5.1.1. First install the lower kickstand to the cutting body cover with the knobs and then tighten the knobs (Fig. 2).

#### 5.2. Replacing the cutting blade;



### NOTE

Only use authorized replacement blades.

- 5.2.1. Stop the motor and allow blade to come to a complete stop.

- 5.2.2. Remove the battery pack.

- 5.2.3. Turn the mower on its side.

- 5.2.4. Wedge a block of wood (not provided) between the blade and mower deck to prevent the blade from turning.

- 5.2.5. Loosen the blade nut by turning it counter-clockwise (as viewed from bottom of mower) using wrench or socket (not provided).

- 5.2.6. Remove the blade nut, spacer, blade insulator, and blade.

- 5.2.7. Make certain the fan assembly is pushed completely against the motor shaft.

- 5.2.8. Place the new blade on the shaft against the fan assembly. Ensure blade is properly seated with shaft going through centre blade hole and the two blade posts inserted into their respective holes on the blade. Make sure it is installed with the curved ends pointing up toward the mower deck and not down toward the ground. When seated properly, the blade should be flat against the fan assembly.

- 5.2.9. Replace the blade insulator and spacer, then thread the blade nut on the shaft and finger tighten.



### NOTE

Make certain all parts are replaced in the exact order in which they were removed.

- 5.2.10. Torque the blade nut down clockwise using a torque wrench (not provided) to ensure the bolt is properly tightened. The recommended torque for the blade nut is 62.5~71.5 kgf.cm (350-400 in. lbs).

- 5.2.11. To reduce the fire hazard, keep the motor and battery compartment free of grass, leaves, or excessive grease.

### 5.3. Installing the grass catcher (For rear bagging option).

5.3.1. Lift the rear discharge guard.

5.3.2. Lift the grass catcher by its handle and place under the rear guard so that the hooks on the grass catcher frame are seated into the slots in the handle bracket.

5.3.3. Release the rear guard. When installed correctly, the hooks on the grass catcher will rest securely in the slots on the handle brackets.

### 5.4. To charge battery.

5.4.1. Allow at least 8-10 hours of charge time before initial use of the mower.

5.4.2. The charger may remain connected to the battery pack any time the mower is not in use.

5.4.3. To improve battery life, store battery indoors in a controlled climate.

5.4.4. The battery does not have to be fully discharged before recharging.

5.4.5. Two to three initial charging/discharging cycles may be required to achieve maximum run time/capacity.

5.4.6. Make sure the power supply is normal household voltage, 230 volts, AC only, 50Hz.

5.4.7. Method 1: Remove the disabling key, then plug the charger connector into the slot on the right vent when the battery is on the mower.

5.4.8. Method 2: After parting the battery from the mower, plug the charger connector into the receptacle on the battery.

5.4.9. Insert the plug of the charger into the wall receptacle.

5.4.10. The red light on the charger should come on, indicating you have power and the battery is being charged. The red light should go off when charging is complete. A fully discharged mower will charge in approximately 100 minutes.

5.4.11. When charging is complete, disconnect the charger from the battery, or the slot from the right vent.

### 5.5. Cutting height adjustment.



#### **WARNING**

Do not touch the cutting blade when moving.

5.5.1. Set the cutting height on the particular requirements one.

5.5.2. Set the rollers as desired, in one of the six positions shown Fig 17.

### 5.6. Turn ON.

5.6.1. Put the battery pack in its position. Fig. 12

5.6.2. Press the safety button (Fig 16.1) and simultaneously pull the lever to start the device. (Fig 16.2).

5.6.3. On releasing lever (Fig 16.2) the unit is turned OFF.

### 5.7. How to handle and use battery operated power tools.

5.7.1. Make sure that the tool is switched OFF before inserting the battery. Inserting a battery in a power tool which is switched on can cause accidents

- 5.7.2. When charging batteries, only use battery chargers recommended by the Manufacturer. Battery chargers are generally designed for use with specific types of batteries; fire risks can occur if other types are used.
- 5.7.3. Use the batteries specifically designed for your power tool only. The use of other batteries may be hazardous and cause injuries and cause injury.
- 5.7.4. Place all unused batteries at a distance from paper clips, coins, keys, nails, screws or other small metal objects as contact with the same can cause short circuits. Short circuits among battery contacts can lead to explosion or fires.
- 5.7.5. Liquid can leak from batteries when they are in bad condition. Avoid all contact with this liquid. Rinse thoroughly with water if accidental contact occurs. If the liquid comes into contact with the eyes, call a doctor immediately. Liquid leaks from batteries can cause skin irritation and even burns.
- 5.7.6. Check that the battery is in good working condition and there are no signs of damage. Never use the machine with a worn or damaged battery.

## 5.8. User instructions for Batteries.


### 5.8.1. General precautions.

- 5.8.1.1. The battery must never be opened.
- 5.8.1.2. Never throw used batteries into a fire **EXPLOSION RISK!**
- 5.8.1.3. Connect the battery charger to power sockets carrying the voltage indicated on the manufacturer's rating plate.
- 5.8.1.4. Use original batteries only.
- 5.8.1.5. The battery may heat up when used for a certain length of time. Allow it to cool down before recharging it.
- 5.8.1.6. Never leave the battery or battery charger within the reach of children.
- 5.8.1.7. Never use the battery charger in zones where flammable vapours or substances are present.
- 5.8.1.8. Recharge batteries at a temperature of between 10° and 40 °C only.
- 5.8.1.9. Never store batteries in environments with temperatures of over 40 °C.
- 5.8.1.10. Never cause short circuits between the battery contacts and never connect them to metal objects.
- 5.8.1.11. When transporting batteries, make sure the contacts never come into contact with each other and never use or pack them in metal containers.
- 5.8.1.12. Short circuit of the battery can cause an explosion. In any case, short circuits will cause severe damage to the battery.
- 5.8.1.13. Check the battery charger cable is not damaged on a regular basis. If the cable gets damaged, the whole battery charger must be replaced.
- 5.8.1.14. Recharge the batteries completely before storing them away in winter.
- 5.8.1.15. The battery can only be charged by charger comply with EN60335-2-29.


## 6. OPERATION

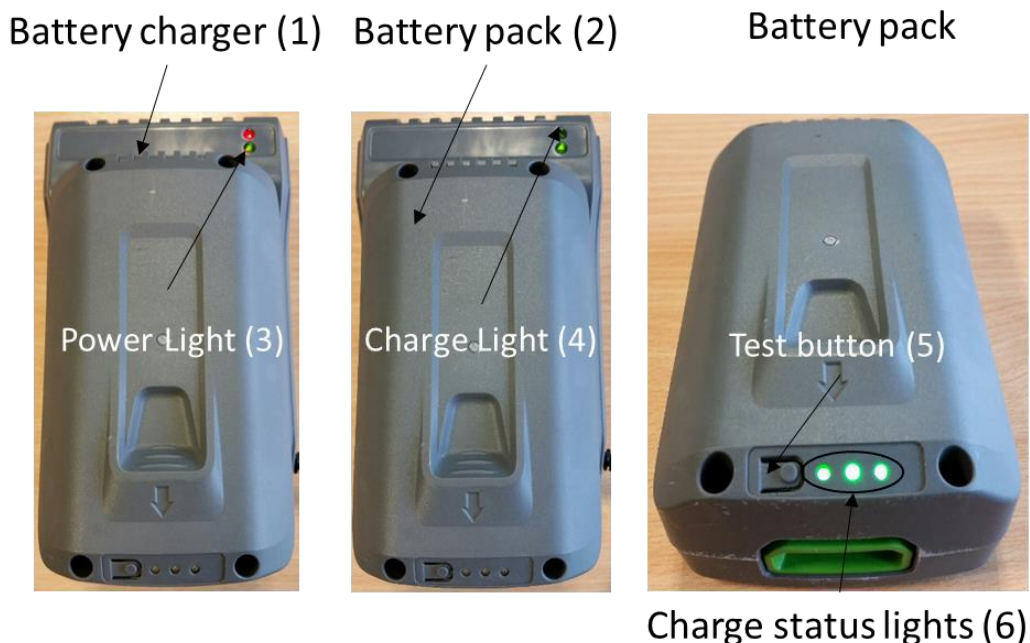
- 6.1. Always make sure your footing is on firm ground.
- 6.2. Set the desired cutting height.
- 6.3. Put the battery pack, press the lock-out button with his right hand and hold the top handle and On/Off control lever with your left hand.

## 7. MAINTENANCE

 <b>WARNING</b>	Before any cleaning / maintenance equipment, remove the battery pack and disabling key. Do not try to repair the equipment yourself repairs made by one expert and from the Service Centre. Damaged inter-connected line must be replaced by the manufacturer or its service agent or similarly qualified person.
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### 1.1. 7.1.1. Charging the battery.

 <b>NOTE</b>	Check that the socket mains voltage is the same as that indicated on the battery charger plate.
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- 1.1.1. Remove the battery from the machine,
- 1.1.2. To recharge the battery,
  - 1.1.2.1. Connect the battery charger (1) to a mains power socket; a green power light (3) will come on indicating there is voltage.
  - 1.1.2.2. Insert the battery pack (2) into the battery charger (1), pushing it in completely. Recharging a completely flat battery requires approximately 100 minutes.

- 1.1.2.3. The recharging phases are indicated by the charge status lights (6),
- 1.1.2.4. Battery charger connected = Green charge light (4) is on.
- 1.1.2.5. Battery inserted and recharging in progress = Green power light (3) on and Charge light (4) on (Red when charging).
- 1.1.2.6. Recharging completed = Green charge light (4) on and Charge light (4) on (Green when charged).
- 1.1.3. Irregular condition = Green power light (3) flashing + Charge light (4) flashing.
- 1.1.4. Short circuit = Charge light (4) flashing RED.
- 1.1.5. Recharging a completely flat battery requires approximately 100 minutes.
- 1.1.6. When recharging has been completed;
- 1.1.7. Remove the battery pack (2) from the battery charger (1) and refit it on the machine.
- 1.1.8. Disconnect the battery charger (1) from the mains power socket.

## 1.2. Checking the battery status.

- 1.2.1. To check the condition of the battery charge status press the small button (5) which activates three charge status lights (6) which indicate the following;

	3 LED lights on = Power reserve = 3/3 (Full)
	2 LED lights on = Power reserve $\geq$ 2/3
	1 LED light on = Power reserve $\leq$ 1/3 (Full)
	No LED light on = Power battery FLAT

## 1.3. Managing the battery.

- 1.3.1. The battery must be kept in environments where the temperature is not in the range of 0°C +45°C. If the machine is stored in places where the temperature could exceed those limits, please remove the battery and keep it in a suitable place.
- 1.3.2. During use, the battery is protected against total drainage with a protective device that switches OFF the machine and stops it from working.
- 1.3.3. The battery is equipped with a guard that inhibits recharging if the environmental temperature is not in the range of 0°C +45°C.
- 1.3.4. The battery can be recharged at any time, even partially, with no risk of damaging it.


## 7.3. Storage.

- 7.3.1. After every work period, clean the machine thoroughly to remove all dust and debris, and repair or replace any faulty parts.
- 7.3.2. The machine must be stored in a dry place away from the elements and out of the reach of children.

## 7.4. Lubrication.

- 7.4.1. No lubrication is required on the device.
- 7.4.2. After 40 hours of use send your unit back to your dealer for service for;
  - 7.4.2.1. Mechanical inspection, cleaning Electrical Inspection.

## 7.5. Cleaning.

 <b>WARNING</b>	DO NOT let water into the device.
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7.5.1. Keep the handle clean and dry.

7.5.2. Clean the equipment immediately after use. Let grass is dry, otherwise the performance of the device adversely affected.

## 8. TROUBLESHOOTING

Fault	Source of problem	Corrective action
Handle not in position	Carriage bolts not seated.	Adjust the height of the handle and make sure the carriage bolts are seated properly.
	Handle knobs not tightened.	Tighten handle knobs.
Mower not starting.	Battery is low in charge.	Charge the battery.
	Battery is either inoperable or will not take a charge.	Replace the battery.
Mower cutting grass unevenly	Lawn is rough or uneven or cutting height not set properly.	Move the wheels to a higher position. All wheels must be placed in the correct position.
Mower hard to push.	High grass, rear of mower housing and blade dragging in heavy grass, or cutting height to low.	Raise cutting height.
Mower not bagging properly.	Cutting height set too low.	Raise cutting height.
Mower vibrating at higher speeds.	Blade is unbalanced, excessively or unevenly worn.	Stop the motor, remove disabling key and battery, and disconnect the power. Replace blade.
	Bent motor shaft.	Take the mower to your dealer.
Motor stops while cutting	Cutting height set too low. Raise the cutting height.	Raise the cutting height.
	Battery no power.	Charge the battery.

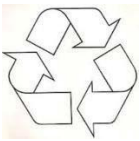
## 9. SPECIFICATION

	<b>HYM36Li Lawnmower</b>
<b>Battery charger supply vac/hz</b>	230/50
<b>Battery type</b>	Samsung Lithium ion
<b>Battery voltage vdc</b>	36
<b>Battery capacity Ah</b>	2.6
<b>Charging time h</b>	1.5
<b>No load speed rpm</b>	3500
<b>Cutting width mm</b>	380
<b>Cutting heights mm</b>	30 to 80
<b>Number of height settings</b>	6
<b>Grass catcher volume L</b>	35
<b>Wheel diameters Front/Back mm</b>	140/200
<b>IP rating</b>	21
<b>Net weight including battery kg</b>	13.7
<b>Assembled size L x W x H</b>	1260 x 430 x 1700
<b>Gross weight kg</b>	16.4
<b>Box size L x W x H</b>	760 x 460 x 420

## 10. ENVIRONMENTAL

10.1. Do not dispose of electric equipment together with household waste material! In observance of European Directive 2012/19/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility. If electrical appliances are disposed of in landfills or dumps hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

10.2. For further information on the disposal of this product, please contact your dealer or your nearest domestic waste collection service.



10.3. Reduce – Reuse - Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.



10.4. When the product is no longer required, it must be disposed of in a manner which is compatible with the environment.

## 11. GENPOWER CONTACT DETAILS

11.1. Postal address;

Genpower Limited, Isaac Way, Pembroke Dock, Pembrokeshire,  
SA72 4RW, UK.

11.2. Telephone contact number;

Office +44 (0)1646 687880

11.3. Email contact;

Technical [service@genpower.co.uk](mailto:service@genpower.co.uk)

11.4. Web site; [www.hyundaipowerequipment.co.uk](http://www.hyundaipowerequipment.co.uk)



## 12. DECLARATIONS OF CONFORMITY

12.1. Genpower Ltd confirms that this Hyundai product conform to the following CE Directives;

12.1.1. 2006/42/EC Machinery Directive

12.1.2. 2004/108/EC EMC Directive

12.1.4. 2000/14/EC, Amended by 2005/88/EC (as amended)

### EC DECLARATION OF CONFORMITY

The undersigned, as authorised by: **Genpower Ltd**

Declares that the following equipment manufactured under licence by Hyundai Korea

Conforms to the Directive: -

**2000/14/EC, Amended by 2005/88/EC (as amended)**

of the European Parliament and of the council on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors.

Equipment Category: **Lawnmower**  
Product Name/Model: **Hyundai HYM36Li (YT5109-2)**  
Type/Serial No: **Battery Powered Lawnmower**  
Cutting Width : **380 mm**  
The technical documentation is kept by: **Kevin Stanley, Genpower Ltd,  
Isaac Way, Pembroke Dock,  
Pembrokeshire, SA72 4RW.**

The conformity assessment procedure followed was in accordance with annex V of the Directive.

Notified Body: **Intertek Deutschland GmbH,  
Stangenstraße 1,  
70771 Leinfelden-Echterdingen,**

Certificate Ref; **13SHH0514-01-01**

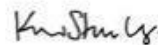
Measured Sound Power Level: **92 dB (A) – (91.6 dB (A))**

Guaranteed Sound Power Level: **96 dB (A)**

A copy of this certificate has been submitted to the European Commission and to EU Member State United Kingdom.

Place of Declaration: **Pembroke Dock, SA72 4RW.**

Date: **24/11/2014**  
Signed by: **Kevin Stanley**  
Position in Company: **Product Manager**  
Name and address of manufacturer or Authorised representative:



**Genpower Ltd,  
Isaac Way, Pembroke Dock,  
Pembrokeshire, SA72 4RW.**





**HYUNDAI**

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