

POWER ON

1

All LCD segments illuminate briefly with a confirmation beep

2

Battery type splash — **12V** or **24V** — for 5 seconds

3

Main display alternates voltage and battery percent every 2 sec

BUTTON QUICK REFERENCE

BUTTON	HOLD	SHORT PRESS
UP	Raise lift	—
DOWN	Lower lift	—
DISP	Hold at power-on: toggle 12V/24V	Show battery status (1 min)
LED	~5 sec: enter timer setting	Toggle deck light / +5 min in timer
REMOTE	—	Toggle key lock

RAISING THE LIFT

1

Confirm key lock is OFF (REMOTE button)

2

Press & hold the UP button

3

UP arrow icon lights; pump motor and UP valve activate

4

Release UP to stop — the lift halts immediately

LOWERING THE LIFT

1

Confirm key lock is OFF (REMOTE button)

2

Press & hold the DOWN button

3

DOWN arrow icon lights; pump motor and DOWN valve activate

4

Release DOWN to stop — the lift halts immediately

LED DECK LIGHT & KEY LOCK

LED button:

short press toggles the light on/off. Long-press (~5 sec) opens the auto-off-timer screen; each short LED press in the timer adds 5 min (5–60).

REMOTE button:

short press toggles the key lock. When locked, UP and DOWN are blocked; lock resets OFF at every power-on.

Default LED auto-off: 15 minutes

SOLAR CHARGING STAGES

STAGE	WHAT IT DOES	SOLAR ICON
Bulk	Maximum current to refill battery	Solid
Absorption	Top-off at constant high voltage (up to 2 hr)	Solid
Float	Low-voltage maintenance once full	Flashing
Equalize	Periodic battery balancing cycle	Solid

BATTERY VOLTAGE SETUP & DEFAULTS

Setting 12 V vs 24 V battery type

1. Disconnect the battery 2. Press & hold DISP 3. Reconnect the battery while still holding DISP 4. Watch the splash for the new setting

Each power-on with DISP held toggles between 12 V and 24 V. The setting persists across power cycles.

Match the controller setting to the battery you connect — mismatch can damage the battery.

Factory Defaults

Battery Type	12 V
LED Auto-Off	15 min
Key Lock	OFF (every power-on)
Cutoff (12V)	9.7V trip / 9.8V recover

LOW-BATTERY (E01) & TROUBLESHOOTING

SYMPTOM	CAUSE	SOLUTION
E01 + alarm	Battery below 9.7 V for 2+ sec	Charge battery; clears automatically when above 9.8 V for 10 sec
Display blank	No battery power / blown fuse	Check battery connections and fuse
Lift will not move	Key lock on, or E01 active	Press REMOTE to clear lock; check for E01
Wrong voltage type shown	Setting was previously toggled	Hold DISP at power-on to switch (Section 5 of manual)
Solar icon never lights	Panel disconnected or shaded	Check panel wiring, fuses, sun exposure
Battery never reaches 100%	Panel undersized, or aging battery	Verify panel rating; consider battery replacement