

## The EDGE Smart Design Pallet Stackers

Performance

### PSE12B

- 1.2T Capacity

AGM

- Perfect for light-duty applications.
- Compact & light service weight
- High maneuverability
- Maintenance-free Lead-acid Battery
- Integrated on-board 12A charger
- Ideal for use on mezzanines

### PSE12N

- 1.2T Capacity

Li-ion

- Perfect for light-duty applications.
- Compact & light service weight
- High maneuverability
- Fast-charging Li-ion batteries.
- Integrated on-board 25A charger
- Ideal for use on mezzanines
- Ultimate solution for light duty operations

DC 24V

## Smart and Ergonomic Tillers

### Standard For PSE12B and PSE12N

Turtle Speed Button

Smart Pin Code Access



Battery discharge indicator  
Operating hour counter  
On-board diagnostics via error codes

BACK

Emergency-reverse & Horn Buttons

Dual butterfly-style thumb driving controls

Electric lifting and lowering

FRONT

RFID card Access

### RFID Card Access is optional for PSE12B and standard for PSE12N

RFID card provides faster access to equipment and ideal for applications when one truck needs to be used by different operators



## Vertical Driving in Confined Space



The function of driving with tiller in the **vertical position** helps with work in confined area without sacrificing of safety.

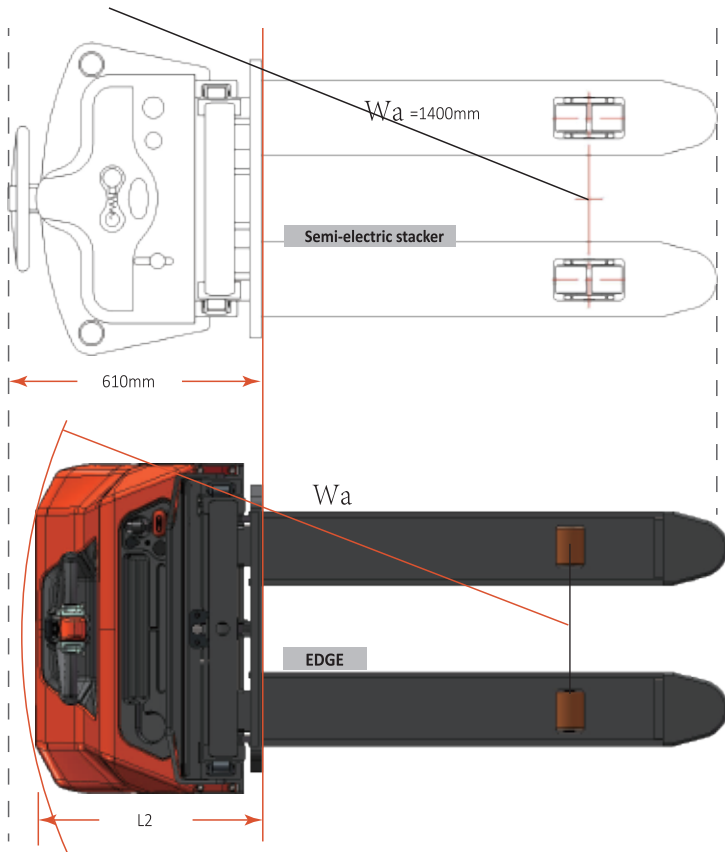
The tiller bar is supported by the air spring which helps to return the tiller to its vertical position without strike in the end point.

For increase of operation comfort and safety the trucks are equipped with speed reduction function in turns.





# Smart Design with Compact Size and Perfect observation



| Model          | PSE12B | PSE12N |
|----------------|--------|--------|
| length(L2)     | 560mm  | 560mm  |
| Turning Radius | 1350mm | 1350mm |

Our engineers put a lot of efforts to achieve compactness of the trucks in comparison with traditionally used manual and semi-electric products without sacrificing of stability, robustness, safety and operation comfort.



Wide mast provides perfect observation of forks, the field of view is clear and not interrupted by mast sections, cylinder or chains.

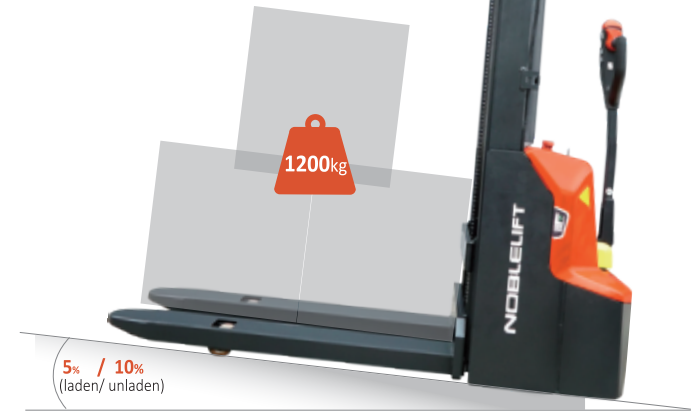


The operator can always clearly see the forks which significantly increases safety of operation



## Gradeability Performance

| Model                      | PSE12B | PSE12N |
|----------------------------|--------|--------|
| Max. grade ability laden   | 5%     | 5%     |
| Max. grade ability unladen | 10%    | 10%    |



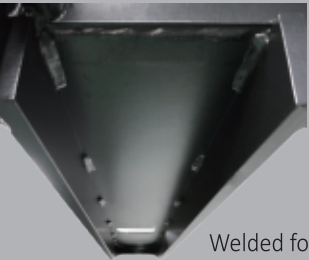
**Steel cover**

The main cover is made out of steel with thickness 2.0mm

Tiller is made out of PA6 30% of glass fiber material, having high strength.

Capacity of 1200kg with high residual value at maximum height (load center distance 600 mm)

Real mast profiles are used for long life-time, no cheap bended solutions used. All directed to maintain performance of the truck during its life-cycle.



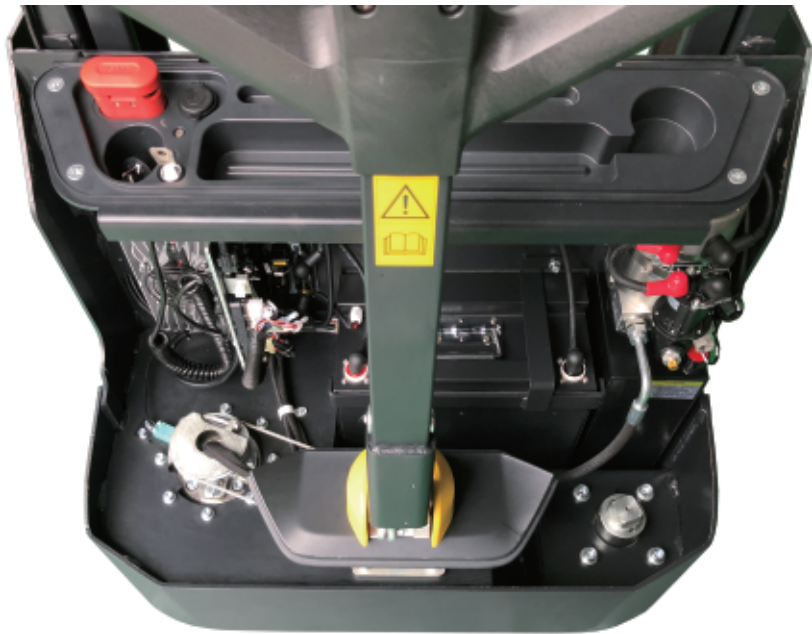
Welded forks are used to ensure robustness.



Maintenance Friendly

STANDARD CONFIGURATION & OPTIONS FOR EDGE FAMILY

**Convenient** and fast access to any component of the truck, no elements are located in areas difficult to reach. No Special tools are required.



Capacity

17.6%

Ready

24.50V

0.00A

Min Volt

0mV

Avg Volt

0.0mV

Max Volt

0mV

Communication

Normal

Realtime

Rated Capacity 60.0 Ah Wh(Current) 0.0 Wh

Discharge Cycle ...

Discharge Cycle ...

Times

Times

Reset

Other

| Name             | Value | Units |
|------------------|-------|-------|
| Cell Temp1       | 25.3  | C     |
| Cell Temp1       | 25.1  | C     |
| SOC              | 45    | 1/255 |
| Power Temp       | 27.1  | C     |
| Envir Temp       | 32.2  | C     |
| Cell Volt Alarm  | none  |       |
| Total Volt Alarm | none  |       |
| Current Alarm    | none  |       |
| Temp Alarm       | none  |       |
| Balance Alarm    | none  |       |

Volt

| Name    | Value | Units |
|---------|-------|-------|
| Cell    | 3507  | mV    |
| Total   | 24.5  | V     |
| Current | 0.0   | A     |
| Run(Wh) | 0     | Wh    |

The software diagnostic tool for lithium batteries can provide full information about battery's condition and its current status. (The above values are for reference only.)

Battery Management System

CAN-bus

The BMS of battery controls charging and discharging parameters, working temperature, short circuits, has sleeping mode and is able to turn off the power in case of emergency. Communication with BMS and software adjustment is possible via CAN



The electric system is using CAN communication protocol increasing reliability of the system.



PSE12B

2x12 85Ah (5Hr) AGM maintenance free batteries are used.

Optionally available 2x12 106Ah (5Hr).



For PSE12B the charger with current 12A is used. The standard charging time is 7 hours



PSE12N

24V 60Ah Lithium LiFePO4 battery with BMS. Lithium battery has connection terminals with screws and located inside the steel case



For PSE12N the charger with current 25A is used. The standard charging time is 2.5 hours. Opportunity charging is supported

The PSE 12N stacker is equipped with maintenance-free 24V/60Ah LiFePO4 type Li-ion battery with fast charging and ultra-high number of charging /discharging cycles during life time; opportunity charging feature basically does not limit your operation time. The integrated BMS provides the same features as the BMS for the batteries of pallet trucks(refer to pallet truck section) .

The on-board charger with 25A current can provide full charge for less than 2.5 hours with great efficiency.

The **PSE 12B** stacker is equipped with 2x12V 85Ah VRLA-AGM maintenance free batteries. Optionally available 2x12V 105Ah batteries for longer operation.

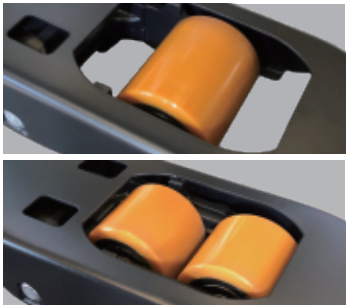
The stacker is equipped with 12A on-board charger. The charging time is 7-8 hours, opportunity charging is not available.



| STANDARD CONFIGURATION OR OPTIONS | PTE12N                     | PTE15N                 | PTE20N          | PTE20B       | PSE12B         | PSE12N          |
|-----------------------------------|----------------------------|------------------------|-----------------|--------------|----------------|-----------------|
| Standard Battery                  | Li-ion 24V/15Ah            | Li-ion 24V/20Ah        | Li-ion 48V/20Ah | AGM 48V/20Ah | AGM 2x12V/85Ah | Li-ion 24V/60Ah |
| Li-ion Battery 24V/20Ah           | O                          | S                      | —               | —            | —              | —               |
| Li-ion Battery 24V/30Ah           | O                          | O                      | —               | —            | —              | —               |
| Li-ion Battery 24V/36Ah           | O                          | O                      | —               | —            | —              | —               |
| AGM 2x12V/106Ah (5 Hr)            | —                          | —                      | —               | —            | O              | —               |
| Standard Charger                  | 24V / 5A                   | 24V / 5A               | 48V / 9A        | 48V / 3A     | 24V / 12A      | 24V / 25A       |
| Li-ion Charger 24V/5Ah            | S                          | S                      | —               | —            | —              | —               |
| Li-ion Charger 24V/8Ah            | with optional battery only | O                      | —               | —            | —              | —               |
| Li-ion Charger 24V/12Ah           | with 36Ah battery only     | with 36Ah battery only | —               | —            | —              | —               |
| Curtis controller                 | S                          | S                      | S               | S            | S              | S               |
| BMS                               | S                          | S                      | S               | —            | —              | S               |
| CAN-communication                 | S                          | S                      | S               | S            | S              | S               |
| Speed Reduction at Turning        | O                          | O                      | S               | S            | S              | S               |
| Vertical drive/Pin wheel          | S                          | S                      | S               | S            | S              | S               |
| Fast battery replacement          | S                          | S                      | S               | S            | —              | —               |
| Entry Roller                      | S                          | S                      | S               | S            | —              | —               |
| Single Fork Roller                | S                          | S                      | S               | S            | S              | S               |
| Tandem Fork Rollers               | O                          | O                      | O               | O            | —              | —               |
| On-board charger                  | —                          | —                      | —               | —            | S              | S               |
| Stability Castors                 | O                          | O                      | S               | S            | S              | S               |
| High traction drive wheel tyre    | O                          | O                      | —               | —            | —              | —               |
| Fork length 800/900/1000mm        | O                          | O                      | O               | O            | —              | —               |
| Fork width 370/550/570mm          | —                          | O                      | —               | —            | —              | —               |
| Load backrest(42/48/60")          | —                          | O                      | O               | —            | —              | —               |
| Pin Code Access                   | O                          | S                      | S               | O            | S              | S               |
| RFID Access                       | O                          | O                      | S               | O            | —              | O               |
| LED Indicators on Tiller          | S                          | —                      | —               | S            | —              | —               |
| LCD Display on Tiller             | O                          | S                      | S               | O            | S              | S               |

S=Standard O=Optional — =not available

Various Options( Pallet Truck )



Optional tandem fork rollers



Optional high traction drive wheel



Optional Stability Casters



Optional backrest