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NOBLELIFT

Material Handling

EDGE EDGE

PSE 12BSC/12NSC

Electric stacker with weighing system

Li-ion or AGM Powered 1200kg



NOBLELIFT INTELLIGENT EQUIPMENT CO., LTD

www.noblelift.com

PSE 12BSC/12NSC

The EDGE Stacker - weighing scale

PSE12NSC is designed based on EDGE stacker with weighing system, which can be used to weigh the cargo with great accuracy during handling operation, and the indicator is standard with a printer.



weighing scale

PSE 12BSC

● **1200kg** Capacity

AMG

- Perfect for light-duty applications.
- Compact & light service weight
- High maneuverability
- Integrated on-board 12A charger
- Ideal for use on mezzanines
- Ultimate solution for light duty operations

PSE 12NSC

● **1200kg** 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



Smart and Ergonomic Tillers

Standard For PSExxSC

Turtle Speed Button

Smart Pin Code Access



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

BACK

FRONT

Emergency-reverse &Horn Buttons
Dual butterfly-style thumb driving controls

Electric lifting and lowering

RFID card Access

RFID Card Access is standard for PSE12NSC

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 impact.

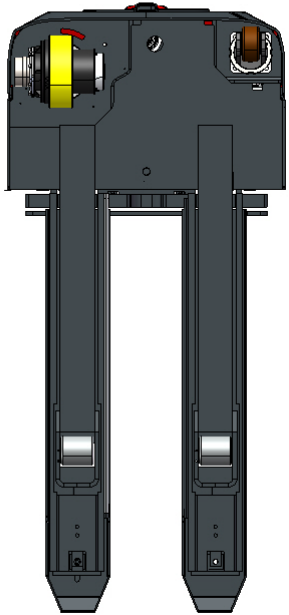
For increase of operation comfort and safety the trucks are equipped with speed reduction function in turns.



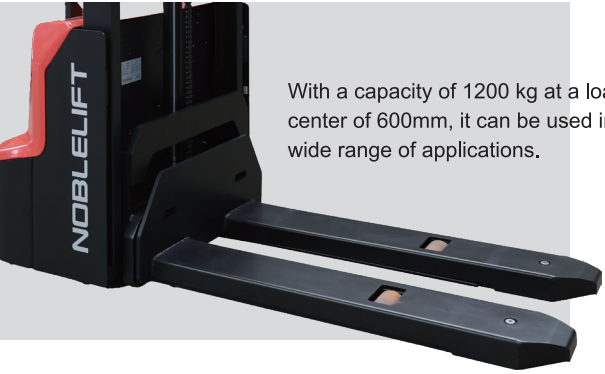
Smart Design with Compact Size and Perfect observation



Compact size, good visibility as well as vertical drive function make PSE12NSC easier to be operated in narrow space.



Floating drive wheel as well as four-point structure makes the vehicle more stable and has a stronger ability to cross obstacles. Compact size.



With a capacity of 1200 kg at a load center of 600mm, it can be used in a wide range of applications.

Maintenance Friendly



High power AC drive wheel ensures efficient and quick material handling operation, with brushless and maintenance-free feature, the drive wheel guarantees high speed and strong acceleration in all situations, making PSE12NSC the ideal high speed and efficient handling device.



The indicator uses rechargeable lithium battery, which can be charged by external power supply via a type C plug.

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



The fork is divided into two parts, the load sensors are located in the center of the fork frame, protected by the fork cover upon the frame, which is easy for maintenance.



Load backrest for security concerns. (Optional)



5% / 10%
(laden/ unladen)

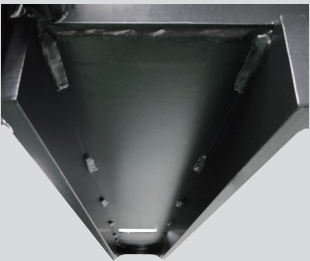
Robustness and Perfect Observation



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



Tiller is made of fiber glass material for high strength.



Welded forks are used to ensure robustness.



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

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.



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

Gradeability Performance

Model	PSE12BSC	PSE12NSC
Max. grade ability laden	5%	5%
Max. grade ability unladen	10%	10%

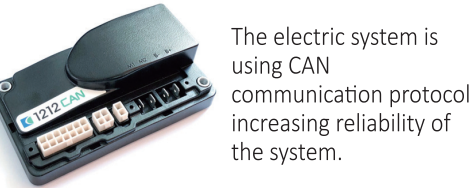


Mast table PSE 12BSC / PSE 12NSC					
Type	Lowered mast height h1 (mm)	Free lift height h2 (mm)	Lift height h3 (mm)	Extended mast height h4 (mm)	Lift + fork height h3 + h13(mm)
Single-stage mast	1930	1514	1514	1930	1600
	2330	1914	1914	2330	2000
Two-stage mast	1780	-	2514	3037	2600
	1930	-	2814	3337	2900
	2080	-	3114	3637	3200
	2280	-	3514	4037	3600

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

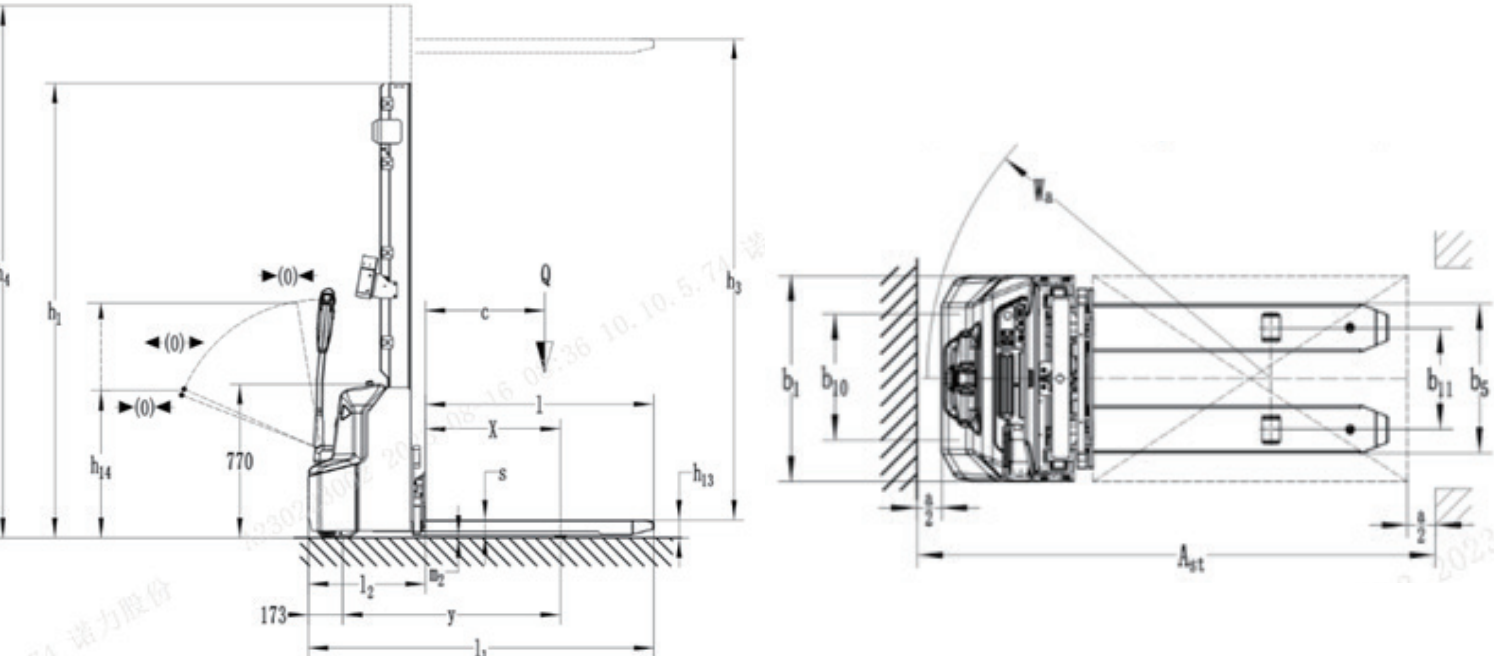


The PSE 12NSC stacker is equipped with maintenance-free 24V/60Ah LiFePO4 type Li-ion battery with fast charging and ultra-high number of charging /discharging cycles during life time; opportunity charging feature basically does not limit your operation time. The integrated BMS provides the same features 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 12BSC** 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.





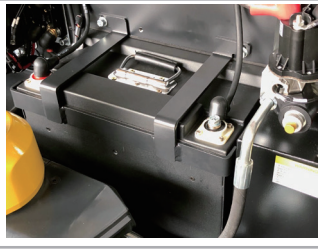
PSE12BSC

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

Optionally available 2x12 106Ah (5Hr).




The charger with current 12A is used
The standard charging time is 7 hours



PSE12NSC

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



The charger with current 25A is used
The standard charging time is 2.5 hours
Opportunity charging is supported



Type sheet for industrial truck acc. to VDI 2198				
Distinguishing mark				
1.2	Manufacturer`s type designation		PS E12BSC	PS E12NSC
1.3	Power (battery ,diesel, petrol, gas, manual)		Battery	
1.4	Operator type		Pedestrian	
1.5	Load Capacity / rated load	Q (t)	1.2	
1.6	Load centre distance	c (mm)	600	
1.8	Load distance ,centre of drive axle to fork	x (mm)	686	
1.9	Wheelbase	y (mm)	1097	
Weight				
2.1	Service weight	kg	700	660
2.2	Axle loading, laden front/rear	kg	530 / 1370	500 / 1360
2.3	Axle loading, unladen front/rear	kg	450 / 250	440 / 220
Tyres, chassis				
3.1	Tires		Polyurethane (PU)	
3.2	Tire size,front	x w (mm)	Φ 210×75	
3.3	Tire size,rear	x w (mm)	Φ 84×93	
3.4	Additional wheels(dimensions)	x w (mm)	Φ 100×50	
3.5	Wheels,number front/rear(x=driven wheels)		1x + 1 / 2	
3.6	Tread, front	b10 (mm)	550	
3.7	Tread, rear	b11 (mm)	400	
Dimensions				
4.2	Lowered mast height	h1 (mm)	2280	
4.3	Free Lift height	h2 (mm)	—	
4.4	Lift height	h3 (mm)	3514	
4.5	Extended mast height	h4 (mm)	4037	
4.9	Height of tiller in drive position min./ max.	h14 (mm)	710 /1150	
4.15	Height, lowered	h13 (mm)	90	
4.19	Overall length	l1 (mm)	1734	
4.20	Length to face of forks	l2 (mm)	584	
4.21	Overall width	b1 (mm)	800	
4.22	Fork dimensions	s/e/l (mm)	55 / 185 / 1150	
4.25	Distance between fork-arms	b5 (mm)	580	
4.32	Ground clearance, centre of wheelbase	m2 (mm)	24	
4.33	Aisle width for pallets 1000X1200 crossways	Ast (mm)	2178	
4.34	Aisle width for pallets 800X1200 lengthways	Ast (mm)	2152	
4.35	Turning radius	Wa (mm)	1300	
Performance Data				
5.1	Travel speed, laden/ unladen	km/h	4.2/ 4.5	
5.2	Lift speed, laden/ unladen	m/s	0.11 / 0.14	
5.3	Lowering speed, laden/ unladen	m/s	0.13 / 0.11	
5.8	Max. gradeability, laden/ unladen	%	5 / 10	
5.10	Service brake		Electromagnetic	
Electric- engine				
6.1	Drive motor rating S2 60min	kW	0.65	
6.2	Lift motor rating at S3 4.5%	kW	2.2	
6.3	Battery acc. to DIN 43531/35/36 A, B, C, no		No	
6.4	Battery voltage, nominal capacity K5	V / Ah	2x12/85 ¹⁾	24/60
6.5	Battery weight +/-5%	kg	2x27 ²⁾	17
6.6	Energy consumption acc: to VDI cycle	kWh/h	0.6	
Additional data				
8.1	Type of drive control		DC	
8.4	Sound level at driver`s ear acc. to EN 12053	dB(A)	<70	

Option: 2x12V/106Ah
2) 2x12V/106Ah : 2x34kg