

# SM4256

SANY Electric Terminal Tractor



**1** **Low energy consumption, high efficiency**  
A new generation of high torque and efficient direct drive system  
Maximum efficiency of single motor is 95%  
Endurance up to 120km under port conditions  
A new generation of vehicle thermal management system  
Integrated AC cooling and heating, battery cooling heating and electric motor control cooling system, efficient management of energy, reduce failures and reduce energy consumption by 5%.

**2** **Intelligent comfort**  
7" display large screen  
Ergonomic handrails  
Four-point airbag suspension cab  
Airbag suspension driver seat  
Intelligent self-diagnosis (IO)  
Optional 360 circumnavigation system + fatigue monitoring system.

**3** **High security**  
High safety power battery system  
High performance lithium iron phosphate battery  
PACK passed 273 safety tests  
Advanced leakage detection system  
Safety traffic control strategy technology  
High and low temperature three-level alarm strategy  
Vehicle anti-skid control strategy  
Charging protection strategy.

**4** **Data interconnection**  
Remote monitoring of vehicle operation data;  
Vehicle operation report can be exported;  
Fault diagnosis and charging scheduling facilitate vehicle management and improve operational efficiency.

## ▶ Product Parameters

| Technical Parameter      |      |                | Configuration Parameter |          |      |                    |
|--------------------------|------|----------------|-------------------------|----------|------|--------------------|
| ITEM                     | UNIT | SM4256         | CONFIGURATION           |          | UNIT | SM4256             |
| Model/driving type       | -    | 4×2            | Traction battery        | Type     | -    | Charging           |
| Overall dimensions       | mm   | 6310×2550×3380 |                         | Capacity | kWh  | 281.9              |
| Wheelbase                | mm   | 3720           | E-motor                 | Power    | kW   | 130/280            |
| Endurance                | km   | ≥120           |                         | Torque   | N·m  | 1400/2800          |
| Self weight              | t    | 9              | Charging time           |          | -    | Fast charge 60 min |
| Max. Traction capacity   | t    | 75             | Front axle/rear axle    |          | t    | 9/30               |
| Max. Gradeability        | %    | ≥6             | The fifth wheel         |          | -    | Fixed              |
| Max. Speed               | km/h | 40             | Tire                    |          | -    | 12R22.5-18PR       |
| Min. Turning radius      | m    | 7              |                         |          |      |                    |
| 0~30km/h accelerate time | s    | ≤20            |                         |          |      |                    |

## ▶ Working Picture



The cost per TEU for electric tractors is 73.1% less than for fuel tractors

↓ 73.1%

| brand                  | cost per TEU | unit price of energy (CNY) | cost per TEU (CNY/TEU) | annual work volume (10k TEU) | annual energy cost (10k CNY) | annual consumption | equals (per ton standard coal) |
|------------------------|--------------|----------------------------|------------------------|------------------------------|------------------------------|--------------------|--------------------------------|
| Sany ETT               | 1.9kWh       | 0.7                        | 1.33                   | 3.6                          | 4.79                         | 72,000kWh          | 8.85                           |
| fuel TT of other brand | 0.85L        | 6.5                        | 5.52                   | 3.6                          | 19.87                        | 27.23t             | 39.48                          |

Note: The energy consumption of each TEU is quoted from the real operation data of a port in South China. Due to the differences in port working conditions, the fluctuation of electricity price and oil price and other factors, the relevant data may vary. The above is for reference only.