Variable Definition

dt = 1

| | |
|---|---|
| $Y_{warehouse}(t)$ | PBUs in warehouse |
| $Y_{parked}(t)$ | PBUs in parking |
| $x_{delivered}(t)$ | PBUs delivered into the warehouse |
| $x_{load}(t)$ | PBUs loaded from the warehouse into the parking |
| $Y_{hoisted}(t)$ | PBUs which are hoisted |
| $x_{hoist}(t)$ | PBUs selected from the parking, and and to be hoisted |
| $x_{install}(t)$ | PBUs selected from the hoisted ones, and to be installed |
| $C_{hoist}(t)$ | Maximum PBUs can be hoisted at each time frame |
| $C_{install}(t)$ | Maximum PBUs can be installed at each time frame |

Equations

$$Y_{warehouse}(t) = Y_{warehouse}(t-1) + x_{delivered}(t) - x_{load}(t)$$

$$Y_{parking}(t) = Y_{parking}(t-1) + x_{load}(t) - x_{hoist}(t)$$

$$Y_{Hoist}(t) = Y_{Hoist}(t-1) + x_{hoist}(t) - x_{install}(t)$$

$$Y_{install}(t) = Y_{install}(t-1) + x_{install}(t)$$

$Y_{parked}(t)$ =< 30

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