



DNS Series Forklift Battery Chargers are heavy-duty traction systems specifically engineered for charging high-capacity batteries used in forklifts, heavy construction equipment, and other high-rate industrial battery applications. Powered by smart microprocessor-controlled architecture, the unit dynamically optimizes the charging profiles to perform power conversion with the highest possible yield and energy efficiency.

The operation is fully automated for maximum workspace safety; charging starts automatically as soon as the battery is connected and shuts down automatically once the entire process is completed. Real-time status diagnostics, operational parameters, and system warnings can be monitored effortlessly at a glance, thanks to the integrated LCD panel and the standard high-visibility LED indicators.

Key Features

- **Compact Size:** Space-saving, low-profile modular design engineered to fit easily into tight charging bays and premium warehouse floor space.
- **High Efficiency:** Advanced power transformation that significantly reduces daily energy consumption and operational costs.
- **Current & Voltage Controlled:** High-precision regulation that safeguards the internal battery plates against overcharging or dynamic overheating.
- **Smart Charging System:** Intelligently controlled multi-stage charging algorithms that extend the service lifespan of expensive industrial batteries.
- **LCD Panel & LED Indicators:** Dual monitoring setup combining a detailed digital display with straightforward diagnostic status LEDs.
- **Automatic Shutdown:** Smart auto-off function that fully cuts power upon charge completion to prevent thermal runaway.
- **All Battery Types Compatible:** Versatile chemistry profiles programmable to support Flooded Lead-Acid, Gel, AGM, and traction batteries.
- **2-Year Comprehensive Warranty:** Full manufacturer assurance backing up premium component construction and certified operational safety.

Forklift Battery Charger



Highlights

- Single or Three-Phase Input
- Wide DC Output Options
- Compact Size
- High Efficiency
- WoWa Voltage Curve
- Smart Charging System
- Microprocessor Control
- LED Indicators
- Automatic Shutdown
- Sturdy Construction
- Quiet Operation
- Suitable for All Type of Batteries
- Automatic Start-Up After Power Cut
- Cuts off Power When Fully Charged
- Shows Charging Percentage
- Battery Discharge and Test Unit
- Overload Protection
- 2 Years Warranty

DNS Forklift Battery Charger Technical Specifications

GENERAL

Phase	Single-Phase	Three-Phase
Technology	Smart Charger	
Control	WoWa Charging Curve	

INPUT

AC Voltage	220/230/240 Vac (or 110/120/127 Vac)	380/400/415 Vac (or 208/480/600 Vac)
Voltage Tolerance	±10%	
Frequency	50 Hz / 60 Hz ±10%	
Power Factor	>0.86	>0.96
Areas of Use	Warehouses, Forklift Maintenance, Battery Factories, Industrial Areas, Airports	
Input Protection	MCB, Overload Protection, Soft Start	

OUTPUT

DC Voltage	12 / 24 / 48 / 72 / 110 / 220 / 400 Vdc (custom outputs available)
Output Accuracy	±1%
Charge Current	Steady Charging Current
Charging Voltage	WoWa Curve Adjusted
Mains Selection	Can Select Different Mains Voltages
Charging Protocol	Constant Current and Voltage
Control Type	Diode Group
Voltage Ripple	≤ 1% RMS
Accessories	AC Input Cable, AC Input Plug, DC Output Cable, Battery Connection Socket
Functions	Availability to Monitor Actual Parameters During Charging with LED Indicators
Winding Material	Pure Copper
Overload Operation	100% - 125% load: 3 min
Output Protection	Electronic Overcurrent Protection, Short Circuit Protection
Efficiency	>90% at Full Load

CONTROL PANEL

Display	4x20 LCD, LED Indicators
Displayed Parameters	Battery not Installed, Rectifier Failure, End of Process, Charging, Battery Full
Displayed Units (Optional)	AC/DC Voltage, Frequency, Input/Output Current, Battery Voltage/Current, Operation Time (S:M:H), Alarms
End of Charging	Automatic Shutdown at the End of Process

SAFETY and STANDARDS

Over Voltage	IEEE 587 4500 A
Interference	Class B
Standards	IEC 62040-1-2-3, EN 50091-1 (Security), EN 50091-2 (EMC), ISO 9001, CE

ENVIRONMENT

Heat and Humidity	-10 C° / + 60 C°, 0 - 90% (non-condensing)
Noise Level	Less than 50 dB
Cooling	Natural Air Cooling

General Features

DNS Series Forklift Battery Chargers are designed for charging high capacity batteries used in forklifts, construction equipments etc. Device performs charging with the highest yield thanks to being microprocessor controlled. Charging starts automatically as soon as battery is connected and is turned off automatically as the process is completed.

Real time information and warnings at the time of charging can be monitored easily with the LED mimic indicator panel comes standard with the charger.

Technical Specifications

Technology: Microprocessor-Controlled Smart Charger

Control System: High-Precision Current and Voltage-Controlled Regulation

System Protection: MCB (Miniature Circuit Breaker), Overload Protection, and Soft Start Architecture

Control Type / Power Stage: Robust Thyristor and Diode Group Configuration

End of Charging Protocol: Intelligent Automatic Shutdown upon Process Completion

User Interface / Display: Integrated LCD Panel with High-Visibility LED Status Indicators

Cooling Method: Eco-Friendly Natural Air Cooling (Convection)



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