



# BATTERY CHARGER DATASHEET

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Current  DS



by Schneider Electric

# About

DCM Battery Charger, compatible with NiMH, Li-ion, Lead battery storage solution is suitable for applications such as peak shaving, emergency system (UPS) and grid-congestion management. It ensures autonomous operation without the need for external control and protects against multiple types of fault such as grid side Peak Current fault, overvoltage, battery overvoltage protection.

# Applications

- Smart grid
- Battery Integration

# Features

- Galvanic isolation between DC input & output on standby
- Solid-state protection for shorts against the grid
- Droop control
- Bidirectional power flow
- Unipolar 350Vdc
- DC TCN Connection
- Efficiency > 98%
- Safety wire
- RS485 Modbus or USB-B for user configuration
- Current/OS compatible
- 100 % digital based on a DSP
- Firmware can be updated

# 350V Battery Charger

## Logistics data

Specification item	Value
Product name	DCM-300V-15A-1P-350V-OQ2R1SW1

## Electrical input data

Specification item	Value	Unit	Condition
Nominal input voltage	250	Vdc	Battery Voltage
Min. input voltage	180	Vdc	Battery Voltage
Max. input voltage	320	Vdc	Battery Voltage
Max. input current	15	A	
Nominal power	3.75	kW	At Max. input current
Max. power	4.8	kW	At Max. input current
Emergency current	7.5	A	
Max. emergency power	2.4	kW	At emergency input current
Efficiency	>98.9	%	At Max. output power
Isolation voltage	3000	Vdc	<1min

## Electrical output data

Specification item	Value	Unit	Condition
Nominal output voltage	350	V dc	Line Voltage
Min. output voltage	320	V dc	Line Voltage
Max. output voltage	400	V dc	Line Voltage
Nominal output current	10.83	A	
Max. output current	14.22	A	
Nominal power	3.79	W	At full input current
Max. power	4.55	W	At full input current
Overcurrent protection	28.5	A dc	At full output power

## Safety Wire

Specification item	Value	Unit
Min. operating voltage	36	V dc
Nominal operating voltage	48	V dc
Max. operating voltage	60	V dc
Nominal current consumption	13	mA

## Physical data

Specification item	Value	Unit
Height	350	mm
Width	75	mm
Depth	191	mm
Weight	4.2	kg

## Environmental Conditions

Specification item	Value	Unit	Condition
Nominal temperature	30	°C	At full power
Min. temperature	-10	°C	At full power
Max. temperature	+40	°C	At full power
Nominal humidity	70	%	
Min. humidity	20	%	
Max. humidity	92	%	

# 700V Battery Charger

## Logistics data

Specification item	Value
Product name	DCM-600V-15A-1P-350V-OQ2R1SW1

## Electrical input data

Specification item	Value	Unit	Condition
Nominal input voltage	500	Vdc	Battery Voltage
Min. input voltage	360	Vdc	Battery Voltage
Max. input voltage	640	Vdc	Battery Voltage
Max. input current	15	A	
Nominal power	7.5	kW	At Max. input current
Max. power	9.6	kW	At Max. input current
Emergency current	7.5	A	
Max. emergency power	4.8	kW	At emergency input current
Efficiency	>98.9	%	At Max. output power
Isolation voltage	3000	Vdc	<1min

## Electrical output data

Specification item	Value	Unit	Condition
Nominal output voltage	700	V dc	Line Voltage
Min. output voltage	640	V dc	Line Voltage
Max. output voltage	800	V dc	Line Voltage
Nominal output current	10.83	A	
Max. output current	14.22	A	
Nominal power	7.58	W	At full input current
Max. power	9.71	W	At full input current
Max. emergency voltage	640	V	Emergency line voltage
Max. Emergency current	9.6	A	
Max. Emergency power	4.86	kW	At emergency line voltage
Overcurrent protection	28.5	A dc	At full output power

## Safety Wire

Specification item	Value	Unit
Min. operating voltage	36	V dc
Nominal operating voltage	48	V dc
Max. operating voltage	60	V dc
Nominal current consumption	13	mA

## Physical data

Specification item	Value	Unit
Height	350	mm
Width	75	mm
Depth	191	mm
Weight	4.2	kg

## Environmental Conditions

Specification item	Value	Unit	Condition
Nominal temperature	30	°C	At full power
Min. temperature	-10	°C	At full power
Max. temperature	+40	°C	At full power
Nominal humidity	70	%	
Min. humidity	20	%	
Max. humidity	92	%	



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For more information, visit  
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