

TECHNICAL DATASHEET

NEENJAS ELECTRIC PVT LTD

Waterproof Charger | **48V/15A** | 900W | Multi Stage Charging

Model: NEV-900WP-LX-48V



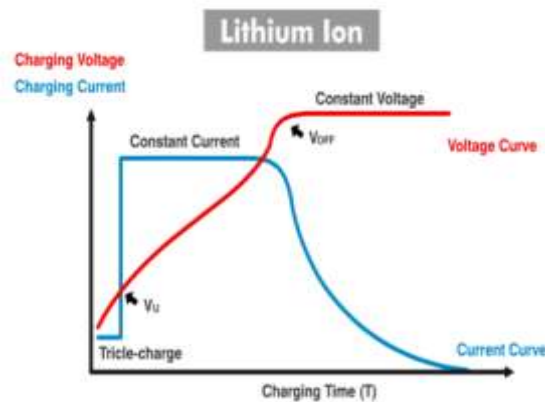
DESCRIPTION:

MODEL NUMBER	BATTERY	VOLTAGE RANGE	CURRENT RANGE	MAX POWER	AMBIENT
NEV-900WP-LX-48	LFP	58.4V	Trickle Mode: 3A CC Mode: 15A CV Mode< 15A	876W	At Ta : 50°C At Tc : 65 °C

KEY FEATURES:

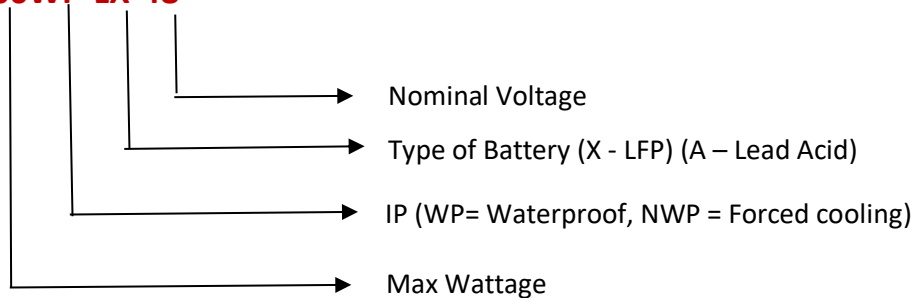
1. Multi Stage Charging (Pre charge, CC, CV & Custom Charging Profile).
2. Wide Input Range. (90V – 280V)
3. Automatic Output current De-rating at Lower Input Voltage.
4. LCD Display for Charging Status and Error Status.
5. >91% efficiency at full load.
6. OCP, SCP, OVP, OTP, Reverse Battery Protection, Surge 4KV and EMI.
7. CAN Enabled.

CHARGING PROFILE



MODEL ENCODING

NEV -900WP-LX-48



GENERAL SPECIFICATIONS

SECTION	PRODUCT CODE	NEV-900WP-LX-48
OUTPUT	Battery Type	LFP
	DC Voltage	51.2V
	Output Current	15A
	Max Cut-off Voltage	58.4V
	No. of cells in series	15S
	Maximum Rated Power	876W
	Hardware Version	V1
	Software Version	V1R2
	Modes	Precharge-CC-CV
	Connectors	Customised as per requirement
INPUT	Input AC Voltage	90-280VAC Under Voltage cut off @90VAC Power Derating 180/190VAC Over Voltage cut off @290VAC
	Input Current at 220VAC	4.4A
	Input Power	948W (max)
	Power Factor	>0.98 (@230VAC@Full Load)
	Input Frequency	47-53 Hz
	Efficiency at 230VAC Full Load	> 91%
	Surge L/N, L/E	4 KV
	Connection	1.5mm sq. with Indian Standard 3 Pin Power Plug
PROTECTIONS	Output Over Current	Yes, above 110% of full load
	Output Short Circuit	Yes (built in)
	Output Over Voltage	Yes
	Reverse Polarity	Built-in/Fuse
	Input Over Voltage (up to 440VAC)	Yes (built in)
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3 KV, I/P-Earth: 2 KV, O/P-Earth: 2 KV for 1 minute
	Isolation Resistance	I/P-O/P, I/P-Earth, O/P-Earth: 250M Ohm/ 500VDC
	EMI & EMC	Inbuilt EMI Filter
OTHERS	Casing Dimensions(mm)	190 × 140 × 114
	Weight (Kgs)	3.5kg
NOTE: Unless otherwise stated, the data are based on 25°C ambient temperature, 230VAC input voltage and full load. Specification is subject to change without notice		

SINGLE LED INDICATIONS

Stages	LED
Stand By	○ White Constant
Charging	● Green Blinking
Charge Complete/ Full charge	● Green Constant
Battery Error	● Red constant
Sleep Mode (Restart Charger)	No LED

Battery error: Battery not connected to charger or protection errors i.e., error from battery side.

PROTECTION RESPONSE

SECTION	PARAMETER
OVER CURRENT PROTECTION	Output is limited to 110% of rated output current.
SHORT CIRCUIT PROTECTION	When output is being shorted, The charger will stop charging and will automatically recover when short is removed.
OVER TEMPERATURE PROTECTION	When the internal temperature exceeds the defined limits, the charger does over temperature detection and the output charging current shall be limited. Once the temperature comes down charger will recovery to normal mode.
REVERSE BATTERY PROTECTION	If Battery connections are wrong, the charger will not give output.
INPUT OVER/UNDER VOLTAGE PROTECTION	When the input voltage exceeds the defined limits, the charger will not give output, once the voltage is normal the charger goes to normal mode.

MECHANICAL DRAWING

