

TECHNICAL DATASHEET

NEENJAS ELECTRIC PVT LTD

EV Charger | 58.4V | 50A | Multi Stage Charging

Model: NEV-3300WP-LX-48



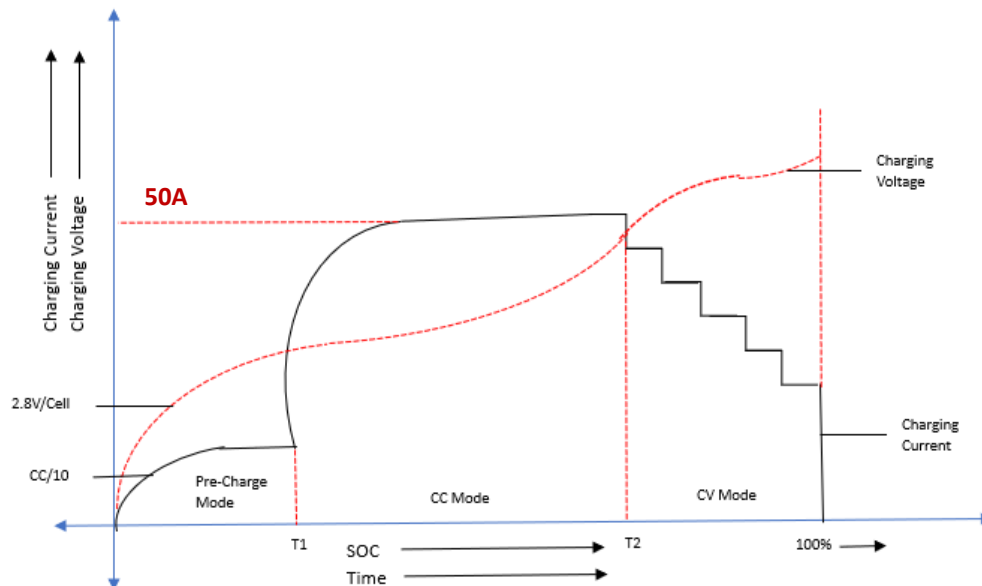
DESCRIPTION

MODEL NUMBER	BATTERY	VOLTAGE RANGE	CURRENT RANGE	MAX POWER	AMBIENT
NEV-3300WP-LX-48	51.2V LFP	58.4V	Pre-Charge Mode: 20% of max current CC Mode: 50A (As per AIS-156 ammendment-3)	3300W	At Ta: 25°C At Tc: 55 °C

KEY FEATURES:

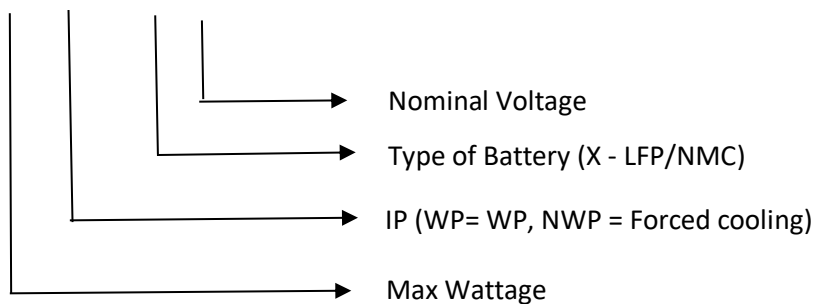
1. Multi Stage Charging (Pre charge, CC, CV & Custom Charging Profile).
2. Wide Input Range. (90V – 265V)
3. OCP, SCP, OVP, OTP, Reverse Battery Protection, Surge 4KV and EMI.
4. UDS CAN Bootloader.
5. CC-PP compatibility for AC Charging Stations.
6. Available for both On-board and Off-Board Applications.

CHARGING PROFILE



MODEL ENCODING

NEV -3300WP-LX-48



GENERAL SPECIFICATIONS

SECTION	PRODUCT CODE	NEV-3300WP-LX-48
<u>OUTPUT</u>	Battery Type	LFP
	DC Voltage	51.2V
	Output Current	50A
	Max Cut-off Voltage	58.4V
	Maximum Rated Power	3300W
	Current Precision	±3%
	Voltage Precision	±0.5V
	Power Consumption(105ah)	5200W (Approx)
	Modes	Pre-Charge-CC-CV/custom profile
	Connectors	Can be customised as per requirement
	Input AC Voltage	90-265VAC Under Voltage cut off @85V +/- 5V AC Power Derating: if input current >16A Over Voltage cut off @270V +/- 5V AC
<u>INPUT</u>	Power Factor	>0.98 (@230VAC@Full Load)
	Input Current at 230VAC	16A
	Input Frequency	47-53 Hz
	Efficiency at 230VAC Full Load	> 91%
	Surge L/N, L/E	4kV
	Connection	Input Connector: Amphenol (HVSL633063)
	Hardware Version	V1
<u>Protocol Info</u>	Software Version	V1
	Protocol	Can be customised as per requirement
	Output Over Current	Yes
	Output Short Circuit	Yes
<u>PRTECTIONS</u>	Output Over Voltage	Yes
	Reverse Polarity	Built-in
	Input Over Voltage (up to 440VAC)	Yes (built in)
	Withstand Voltage	I/P-O/P: 2.5kV
	Isolation Resistance	Input-Output, Input-GND, Output-GND: >10MΩ, 500VDC at 25°C
<u>SAFETY & EMC</u>	EMC Immunity	CE CISPR25 Class 3
	Casing Dimensions(mm)	213mm*205.4mm*97.5mm
	Weight (Kgs)	5.5 KG
<u>OTHERS</u>	IP Rating	IP67

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

IN HOUSE SURGE TEST ANALYSIS

Voltage	Polarity	Status
2KV	Line – Neutral	PASS
2KV	Line – Earth	PASS
4KV	Line – Neutral	PASS
4KV	Line – Earth	PASS

IS-9000 TESTING

SUMMARY OF TEST	
Clause No.	Test(s) performed (name of test)
1	Free Fall (IEC 60068-2-31: 2008)
2	Vibration Test (IEC 60068-2-6:2007)
3	Impact Test (IEC 60068-2-75: 2014)
4	Dry Heat Test (IEC 60068-2-2: 2007)
5	Cold Test (IEC 60068-2-1: 2007)
6	Temperature & Humidity Test (IEC 60068-2-78: 2012)

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 & CAD Drawing

