TURNO VOLT — EDGE SERIES

Edge Series.

TURNO's wall/floor-mountable LFP battery range for hybrid solar inverters, covering residential through small-to-mid-size commercial backup.



LIFEPO4 · 16S 1P

51.2 V NOMINAL

1.0 C DISCHARGE

TURNO VOLT-EDGE 5X

5 kWh

CAPACITY	100 Ah
NET WEIGHT	< 48 kg
MAX. CHARGE	30 A

TURNO VOLT-EDGE 12XT

12 kWh

CAPACITY	230 Ah
NET WEIGHT	< 102 kg
MAX. CHARGE	115 A

KEY FEATURES

01 **App Monitoring**
Real-time status monitoring & remote firmware upgrade available.

02 **Stackable**
Supports up to 16 units in parallel per bank for higher capacity.

03 **Sleek Aesthetic**
Edge 5X: wall-mounted or rackable. Edge 12XT: rack-mounted.

04 **High Safety LFP**
Cell-level balance monitoring and multilayer hardware security lockout.

05 **Low Temp Support**
Automatic heating function allows charging down to -20°C ambient.

06 **Wide Compatibility**
Pre-programmed protocol matching with leading hybrid and off-grid inverters.

TURNO

EDGE SERIES
AT A GLANCE

10 yr
WARRANTY

IP54
PROTECTION LEVEL

90 %
USABLE DEPTH OF DISCHARGE

UN38.3
IEC62619
CERTIFICATIONS

CONTACT
turnovolt_sales@turno.club
+91 90191 17133

MODEL COMPARISON

Technical specifications.

MODEL PARAMETER	EDGE 5X	EDGE 12XT
GENERAL		
Model / Product No.	Turno Volt-Edge 5X	Turno Volt-Edge 12XT
Battery Chemistry	LiFePO4 (LFP)	
Cell Configuration	16S 1P (Prismatic Cell)	
ELECTRICAL		
Nominal Capacity	100 Ah	230 Ah
Nominal Voltage	51.2 V	
Operating Voltage	46.4 V ~ 58.4 V (Cell Level: 2.90V ~ 3.65V)	
Nominal Energy	5.12 kWh	11.78 kWh
Discharge Rating (CRate)	1.0 C	
Recommended Charge CRate	0.25 C	
Max. Continuous Discharge Current	100 A (1.0 C)	230 A (1.0 C)
Peak Discharge Current (30s)	120 A (1.2 C)	276 A (1.2 C)
Max. Continuous Charge Current	30 A	115 A
Depth of Discharge (DOD)	10% ~ 100% (Usable DOD 90%)	
PHYSICAL & ENVIRONMENTAL		
Dimension [W x D x H]	558 x 500 x 150 mm	650 x 530 x 250 mm
Net Weight	< 48 kg	< 102 kg
Protection Level	IP54	
Cooling System	Forced air cooling through internal fan	
Charge / Discharge Temp.	0°C ~ 55°C	
Storage Temperature	20°C ~ 35°C & <85% RH (Optimal for reliable life); -10°C ~ 60°C (Extreme)	
Relative Humidity	0 – 95%	
Altitude	2000m above sea level	
INSTALLATION & INTEGRATION		
Installation	Wall or Floor Mounted, Rackable (client's choice)	Rackable only
Expansion	Up to 16 units in parallel	
Communication	CAN / RS485 / RS232	
LED / Status Indicator	Provided	
Compatible Inverters	Victron / Deye / Involtics / Feston / Solis	
WARRANTY & COMPLIANCE		
Warranty Period [1]	10 years / 6,000 cycles*	
Certification & Safety Standard	UN38.3 / IEC62619	

* Whichever is earlier.

[1] Usage under standard conditions as per the product warranty catalogue.

NOTE – If the paired inverter does not support a compatible communication protocol, the battery will still operate without communication, in standard 48V format.