

48TL80-nv

Battery for Telecom

48TL80-nv BATTERY – TECHNICAL DATA

Electrical Characteristics

Nominal Voltage 48 VDC
 Nominal Capacity 80 Ah
 Nominal Energy 4 kWh
 Voltage Operating Range 40 to 56 VDC
 Max Continuous Discharge Current 50 Amps

Dimensions

Front 260 mm
 Depth 550 mm
 Height 320 mm
 Weight 45 kg

Operational Features

Bus Voltage Range 53 to 60 VDC
 External Temperature Range - 20 to + 60 °C
 Internal Temperature + 280 to + 340°C
 Low Voltage Disconnect 40 VDC (adjustable)
 Fuse 63 Amps

Communication & Interface

Communication Port RS232 or RS485
 Alarm Dry Contact 230 VAC 2A



ENVIRONMENTAL & SAFETY

Environmental Aspects

Lead and cadmium free
 Zero ambient emissions
 Fully recyclable materials
 Efficient material usage

Safety

Steel cell case
 Double Steel battery case
 Typical failure mode (internal short) does not develop violent energy release
 BMS diagnostics alerts on anomalies and disconnects the battery in case of serious failure.
 Supplementary protection with an independent logic circuit in the event of BMS failure

ADVANTAGES (PREMIUM FEATURES)

- ✚ Insensitivity to the operational and environmental conditions, i. e. constant performances and lifetime over a wide temperature range -20°C +60°C, as well as with heavy cycling (>2000 cycles)
- ✚ Maintenance free
- ✚ Fully sealed, zero emissions
- ✚ Three times lighter than conventional batteries
- ✚ On board control, monitoring, diagnostics, logging (Battery Management System, BMS)
- ✚ Can be used with any DC power supply, without any adjustment
- ✚ Integrated Low Voltage Disconnect (LVD)

