

48V/100Ah, 48V/200Ah & 48V/300Ah Cold Molten Salt battery (phase change material immersed energy backup module)
Specifically designed for telecom application



Ideal Applications:

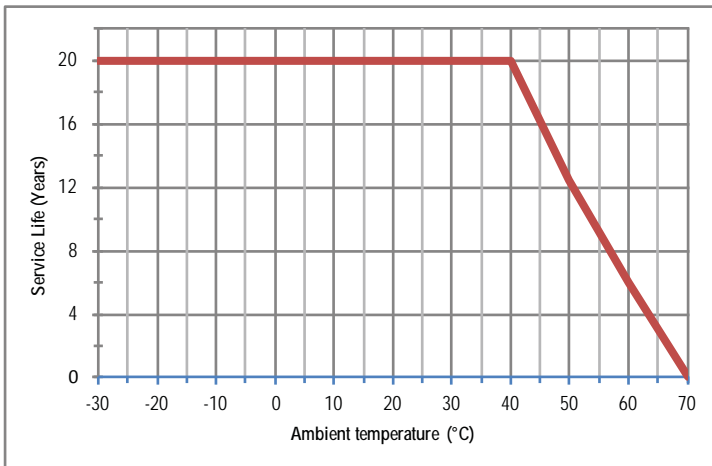
- Telecom core sites without air conditioner
- Telecom outdoor cabinets in locations with elevated or extreme temperatures
- Installation in locations where regular on-site maintenance is costly or not possible. Constant performance at -30° to $+60^{\circ}\text{C}$ / -22° to $+140^{\circ}\text{F}$, with no cooling required

Features:

- > 3000 cycles kWh DoD (three times mains failure per week, each one hour within 20 years in standard four hours maximum storage time designed systems)
- %100 maintenance free operation
- Up to 5 times starting and 2 times continuous discharge current
- Fast charging capability, up to 3 hours to %90 of rated capacity
- Possibility of remote monitoring
- Very low total cost of ownership (TCO) compared to other backup technologies
- 20 Years maintenance free design life
- Protection class of IP55
- < %0.2 per day self-discharge
- Stainless steel battery module case
- Integrated system (BMS) for monitoring, diagnostics and data logging
- Easy user interface on front panel
- Ready for remote diagnostics and monitoring
- Constant boost and float charge voltage at -30° to $+60^{\circ}\text{C}$ / -22° to $+140^{\circ}\text{F}$
- Compatible with all standard telecom rectifiers
- Scalable with parallel operation
- Supplementary protection with an independent circuitry in the event of BMS failure
- Optimized thermal insulation between inside and ambient environment to guarantee the lowest thermal loss and to maximize the system energy efficiency of about three times better than other molten salt battery technologies

Specifications	CMS 20L-48100	CMS 20L-48200	CMS 20L-48300
Cells per unit	24 cells	24 cells	24 cells
Voltage per unit	48V	48V	48V
Capacity	100Ah@10hr-rate to 1.75V per cell	200Ah@10hr-rate to 1.75V per cell	300Ah@10hr-rate to 1.75V per cell
Dimensions (W*H*D)	492*394*736 mm	844*430*860 mm	844*430*1100 mm
Weight	Approx. 190kg	Approx. 420kg	Approx. 630kg
Internal resistance	Approx. 25mΩ	Approx. 12.5mΩ	Approx. 8.5mΩ
Boost charging voltage	2.40V per cell	2.40V per cell	2.40V per cell
Float charging voltage	2.25V per cell	2.25V per cell	2.25V per cell

Service Life



Float Power Consumption

