



DC Power System

84000 Series

TYPE 3 (T3)

Flexible & Powerful Backup
Solution for DC Telecom

Introduction

- + The cabinet frame is made of rust-proof, non-corrosive, fire-resistant, and chemical-resistant steel that is also painted with anti-static paint before coating.
- + The cabinet comes with shielded door to ensure safety operation, reduce the noise to the environment and provides anti-static protection.
- + Cable management within the cabinet is designed to be flexible so that top entry or bottom entry cables can be accessed.
- + All non-current metal parts are grounded through the ground position in the cabinet.
- + Busbar systems are made of copper that is coated with a special material to prevent it from rusting or corroding and is designed to be able to handle the maximum amount of electricity that the system can produce.

Key Features

Integrated digital signal processing control Technology

This technology ensures the system's high reliability and performance by providing precise control of the rectifiers and other components.

High reliability

The system is designed to be highly reliable, with features such as hot-swappable rectifier modules and redundant power supplies.

High power density

The system packs a lot of power into a small space, making it ideal for use in telecom applications where space is limited.

High performance

The system provides high performance, with a high efficiency and low noise emissions.

Cutting-edge design

The system is designed with the latest technology, making it well-suited to meet the demands of the telecom industry.

Specifications

System Capacity	84,000W
AC input voltage Range	90–300VAC, System Main Input : 3 phase +N 380VAC – 400VAC (Output derating from 185 VAC)
Input Frequency	45Hz to 66Hz
Power Factor	>0.99 for more than 50% load
Output Voltage	42Vdc to 58Vdc
Max Output Current	1750A @-48VDC
Type of Rectifier	28 Slots x Serenity SMR 3kW
Surge Protection	SPD Class C
DC Distribution	Copper Bus-bars for Positive Copper Bus-bars riser for load distribution 2 x Load Fuse Range (500A–1000A) 1 x Load Fuse Range (500A–1000A) (Optional)
Controller	M2000
Battery Termination	2 x Range (500A – 1000A) Fuse 1 x Range (500A–1000A) (Optional)
Mechanical dimensions	2000mm(H)x600mm(W)x600mm(D)
Weight	≥270kg
Cable Entry/Service	Top/Bottom Entry
Mounting arrangement	Floor mount
Degree of Protection	IP-20
Potential Free Contacts	8 nos. configurable DI/DO
Operating Temperature	-40°C to +75°C, Linear derating from 40°C onwards
Operating RH	0% to 95% Non-Condensing
Cooling /SMR Cooling	Natural cooling for System/ Forced cooling for rectifiers
Peak efficiency	96%
Dynamic load regulation	<5% for 10% – 90% & 90% – 10% (load change over)
Line voltage regulation	<1%