

NetSure™ 700 C41

Embedded High Frequency Switch Mode Power Supply System



Key Features

- Wide AC input voltage range: 85Vac-300Vac
- The user space and the installation cost can be saved due to its compact size and the embedded installation.
- Perfect lightning protection.
- Hot pluggable rectifiers. Easy and quick on-line maintenance.
- The rectifier uses DSP(Digital Signaling Processor) technology.
- Advance battery management function, enhances the battery life significantly.
- Provides various communication ports, such as RS232, Internet port, dry contacts, etc. which enables flexible remote controlling & monitoring.
- CE Certified
- Excellent energy conservation and environmental protection.

Description

NetSure™ 700 C41 embedded high frequency switch mode power supply system is designed to deliver reliable and uninterruptible 24V DC supply for the communication equipments, and delivers unmatched performance in the most compact footprint. It has an integrated lightning protection at AC side, DC side, and signal side that keeps it completely safe from external power transient disturbances. Its exceptional environmental tolerance empowers it to deploy in the array of applications including outdoor systems.

System Configuration

| Configuration | NetSure™ 700 C41-S1 | NetSure™ 700 C41-S2 |
|-----------------------|--|--|
| System Capacity | 300A | 300A |
| Monitoring Module | M221S/M222S | M830B |
| Rectifier | 4XR24-2200 | 4XR24-2200 |
| AC Power Distribution | Input | 1 x 125A/2P |
| | Output | 1 x 16A/1P, terminal |
| Battery MCB | 2 x 125A/1P | 2 x 125A/1P |
| DC Power Distribution | BLVD | 2 x 32A/1P, 2X16A/1P |
| | LLVD | 1 x 100A/1P, 2 x 36A/1P, 3x32A/1P |
| Dry Contact | 3 digital signal inputs, 4 alarm outputs | 8 digital signal inputs, 4 alarm outputs |
| Lightning Protection | Lightning protection at AC side(C-level), DC side, signal side | |
| Optional | Dry contact extension board, temperature sensor, dummy plate, battery rack | |



NetSure™ 700 C41-S1(2)

Rectifier

| Configuration | Model |
|---------------|----------|
| Rectifier | R24-2200 |

| Electrical Parameter | Description |
|----------------------|--------------|
| Input Voltage | 85 to 300Vac |
| Power factor | ≥0.99 |
| Efficiency | >90% |
| Output Voltage | 21 to 30 Vdc |
| Nominal Voltage | 24 Vdc |
| Rated Voltage | 26.8Vdc |



R24-2200

Controller M221S/M222S/M830B

| | | M221S | M222S | M830B |
|-------------------------|---------|--|-------|---|
| Display | | LCD with 8×16 characters | | 128 x 160 Pixels TFT LCD |
| Communication Interface | | RS232, Ethernet | RS232 | RS232, RS485, Ethernet, USB |
| Protocol | | HTTP, SNMP, YDN23 | YDN23 | IPv4, IPv6, HTTPS, SNMP V2/V3, EEM Soc Tpe, Rsoc, Modbus |
| Input | Analog | 1 battery current, 1 bus voltage, 1 battery voltage, 2 temperatures, 4 midpoint battery voltage | | 2 battery currents, 1 load current, 1 bus voltage, 2 battery voltages, 3 temperatures, 1 fuel level sensor and much more with additional interface boards |
| | Digital | 2 load fuses, 4 battery fuses, 1 bi-stable contactor status, 4 user inputs (Optional, need extra board) load fuse and battery fuse can be configured as midpoint battery voltage, load fuse and battery fuse | | 1 input for status of surge protective device auxiliary contacts, 12 load fuses, 6 battery fuses, bi-stable contractor status |
| Outputs | | 1 LVD mono or bistable contactors, 1 LVD mono contactor, 8 user relay outputs (optional, need extra board) | | 3 LVD mono & bistable contactors |



M221S



M222S



M830B

Mechanical parameter

| Mechanical Parameter | NetSure 700 C41-S1 | NetSure 700 C41-S2 |
|----------------------|---------------------------------------|--------------------|
| Structure | Width: 19-inch, height: 6U | |
| Dimension(mm) | 483(W) x 360(D) x 267(H) | |
| Weight(kg) | ≤25(without rectifier and controller) | |