

Cerberus® MN7000 Power Supplies

Mechanical Assembly

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1. Project Information for HW-Configuration

1.1. Cabinets, Housings and Modules

This section lays down installation guidelines for the module chassis and the individual electronic modules within the selected housing (or cabinet). Service and maintenance personnel soon become familiar with a standard design leading to increased efficiency in their work. The completed standard design sheets serve as site-documentation. They are invaluable for maintenance purposes and for subsequent retrofitting. This documentation must be kept with the equipment concerned.

The vertical sub-division of the housings/free-standing cabinet and modules is given in height units HU.

$$1\text{HU} = 44,45\text{mm} = 1 \frac{3}{4} \text{ inches}$$

The horizontal sub-division of the module chassis is given in division units DU giving a total width of 84 DU. This sub-division is used for the installation of guide rails.

$$1\text{DU} = 5,08\text{mm} = 0,2 \text{ inches}$$

1.1.1. Free Standing Cabinets

In general, the equipment is installed in a 19" housing/free-standing cabinet (IEC protection category min. IP 30)

The number of housings/cabinets required depends on the following criteria:

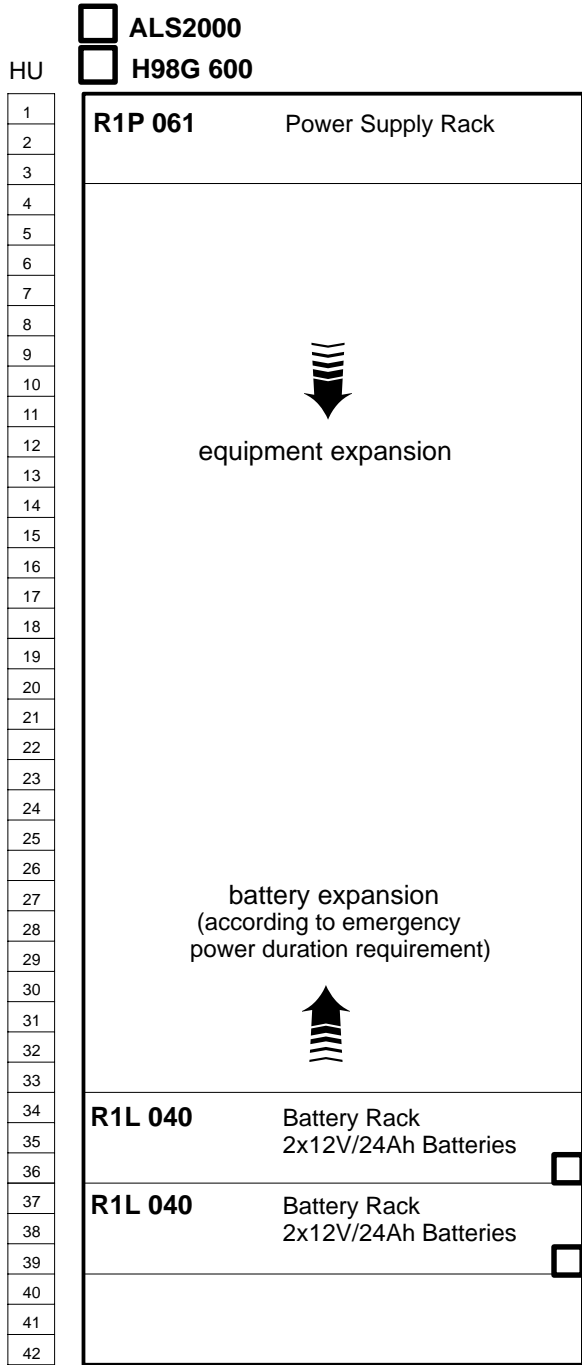
- extent of the equipment
- spare space for future expansion
- required operating time under emergency power
- power dissipation of equipment

To prevent undue overheating of the electronics the power supply should always be located in the upper part of the cabinet and the selection criteria specified in User Manual MN7000 should be strictly adhered to.

To minimise mutual interference between the modules, the standard chassis layout should be used at all times.

The same mechanical constraints also apply to physically separated operating units.

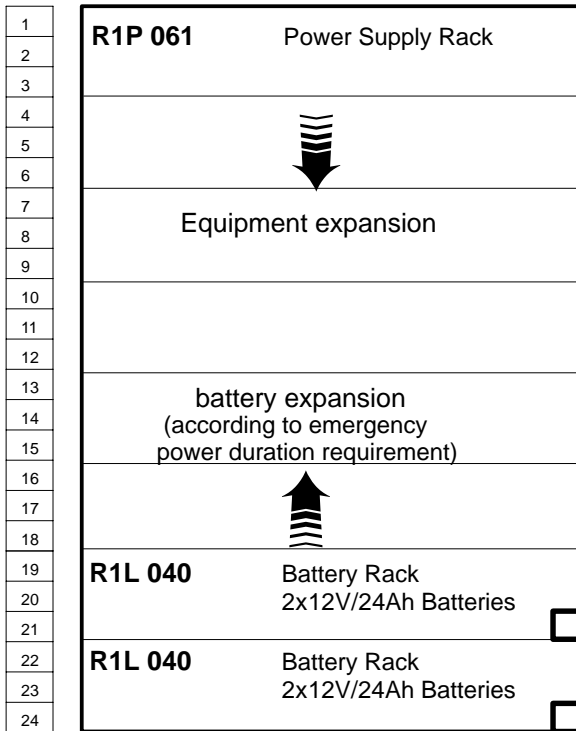
1.1.2. Power Supply Unit MN7001 built into Cabinet



1.1.3. Power Supply Unit MN7001 built into Series H... Housing

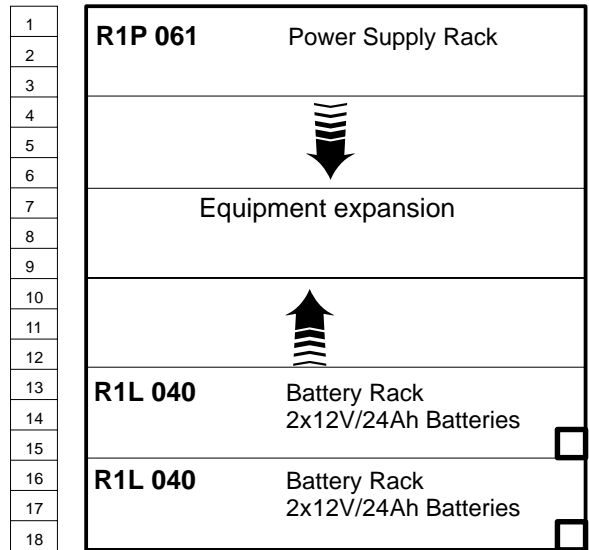
- H68G600 24HU Housing
- H68T000 Door without window

HU



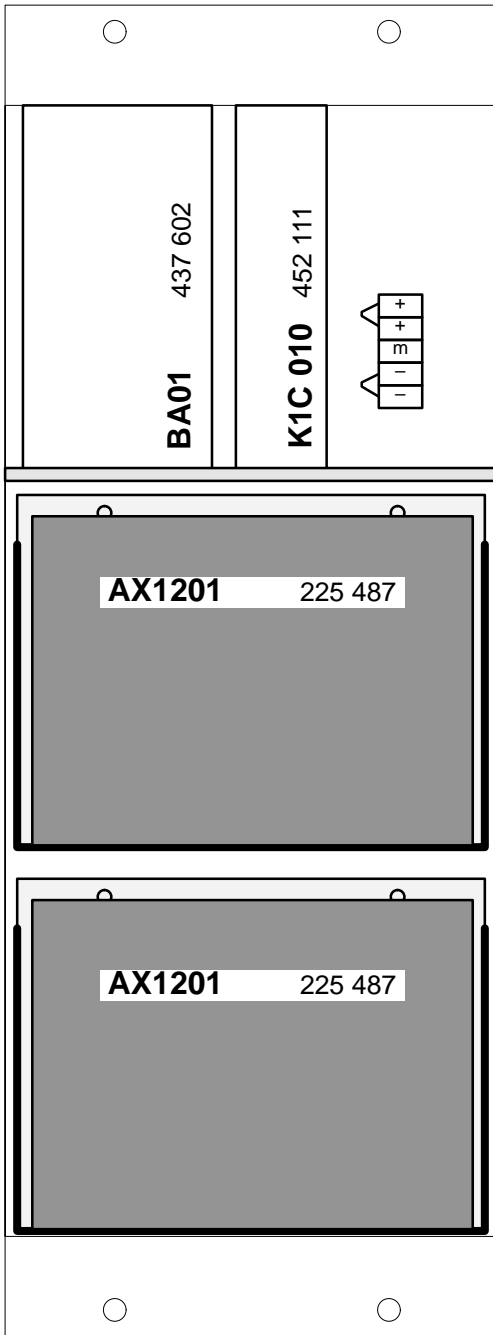
- H58G600 18HU Housing
- H58T000 Door without window

HU

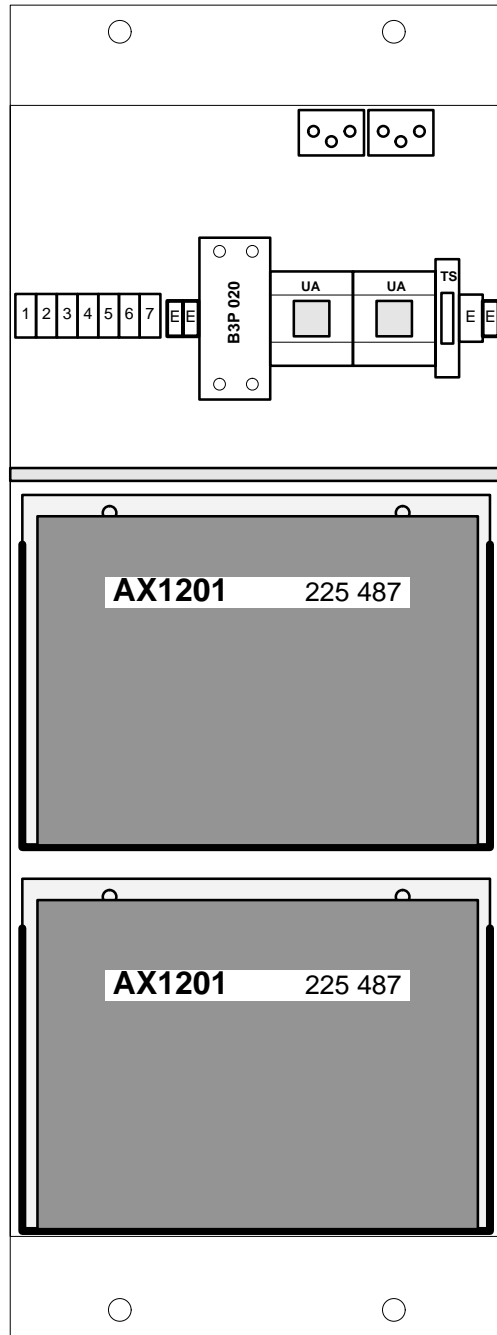


1.1.4. Power Supply Tower R1P 070 (no longer available)

front view



rear view



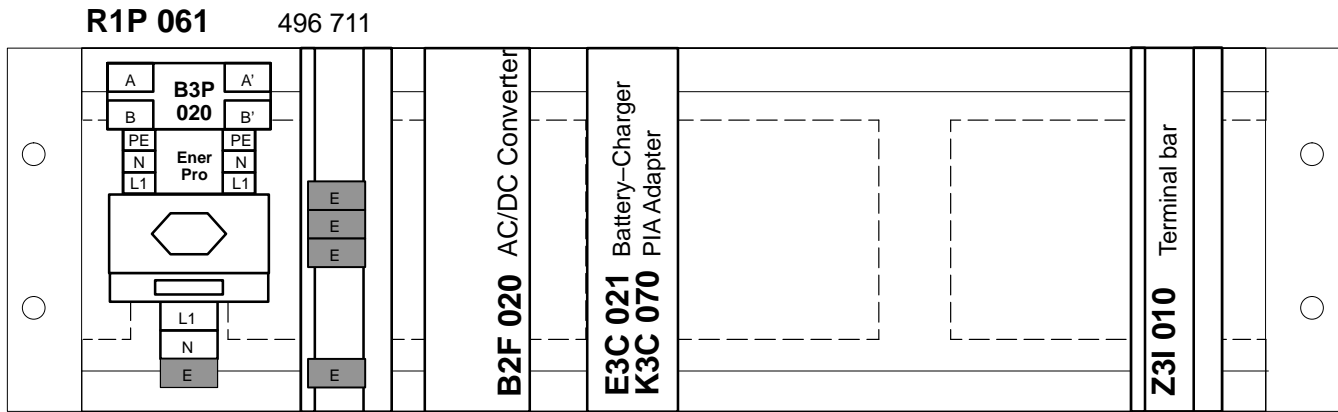
1.1.5. Module Chassis

The universal module chassis permits a modular design approach, allowing different equipment to be assembled simply by fitting the relevant electronics modules.

As for the free-standing cabinets/housings, the vertical space requirements are given in height units HU.

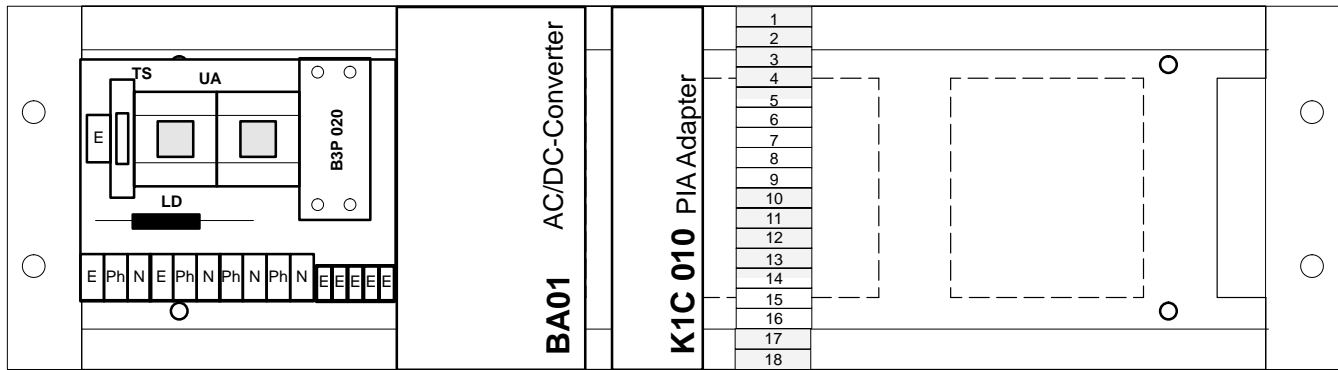
- module chassis for European cards/modules 3HU
- module chassis for double European cards/modules 6HU
- cable tray for each module chassis 1HU

1.1.6. R1P 061 Power Supply Rack for Primary Power Source (Main supply)



E Earthing terminal

R1P 060 462 428 (no longer available)

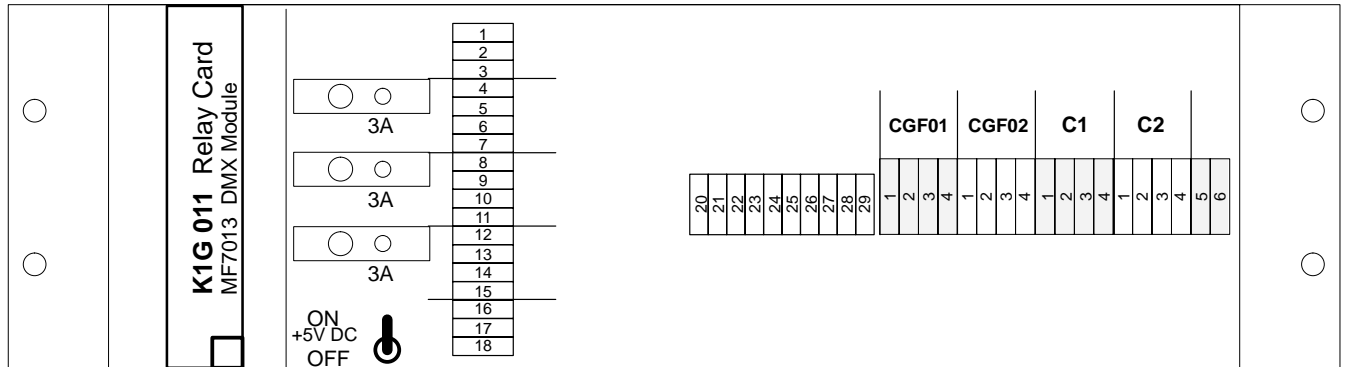


1.1.7. Distribution Rack R1K 060

Note:

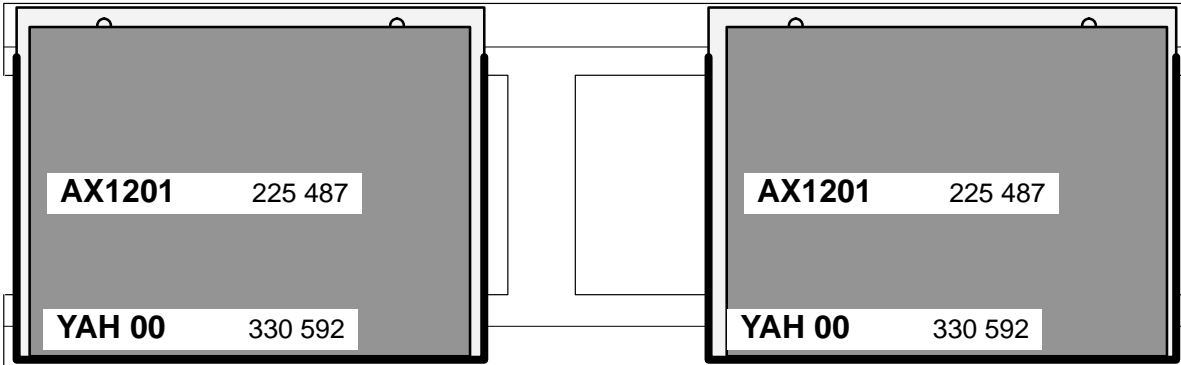
This rack is normally included in the delivery of the corresponding equipment.

R1K 060 346 081

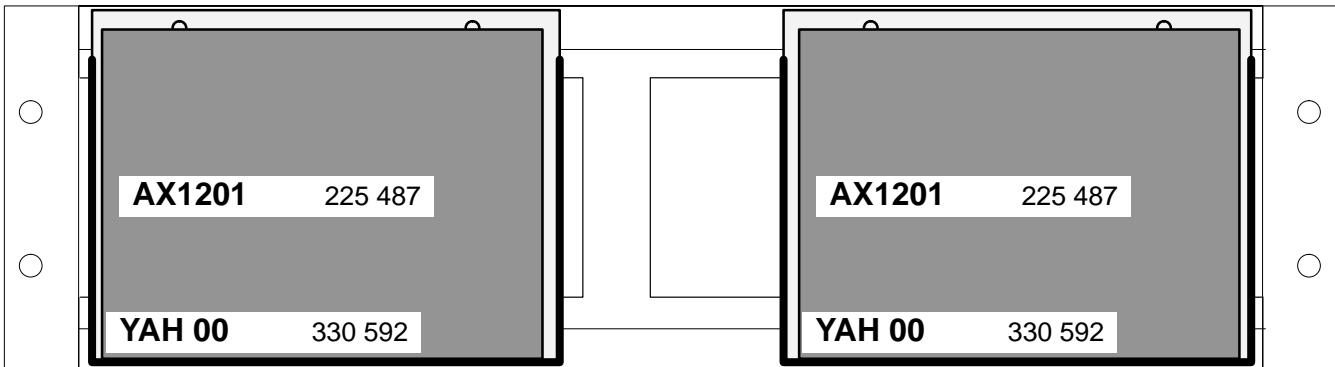


1.1.8. Racks for Secondary Power Source (battery operation)

G1E 010 384 276 (mounting frame required)



R1L 040 433 648 (19" front panel mounting)



2. HW-Modules

2.1. Power Supply

Pos.	Designation	Type	Part No.	To be supplied per equipment	Quantity												Note	
					Rack			Charging										
					Basis	2		per 24Ah	Mounting		24Ah<48Ah							
				19" Front	Rear panel													
1.	Power Supply Rack	R1P 061	476 711		1													
2.	Ribbon Cable 1,0m	F14A 410	316 273		1													
3.	Distribution Rack	R1K 060	346 081		1)													
4.	Battery 12V/24Ah	AX1201	225 487				2											
5.	Rack for 19" Front Panel Mounting	R1L 040	433 648					1										
6.	Battery Support	YAH 00	330 592					2	2									
7.	Rack for Rear Panel Mounting	G1E 010	384 276						1									
8.	Battery Charger Module	E3C 021	505 408							1								
9.	Universal card holder	G1K 030	509 815							1								
10.	Connection cable	Z3B 220	496 504							1								2)

- 1) as required
- 2) Connection between two E3C021

2.2. Sub-Units

These articles are required for replacement or repair purposes only.

Pos.	Designation	Type	Part No.	To be delivered per equipment	Quantity													Note	
					R1P 061	E3C 021	Z3I 041												
1.	Universal card holder	G1K 030	509 815		1														
2.	AC/DC-Converter	B2F 020	470 588		1														
3.	Battery charging module	E3C 021	505 408		1														
4.	PIA-Adapter	K3C 070	510 008		1														
5.	Mains Filter	B3P 020	392 653		1														
6.	Surge protector set 230 V _{AC}	Z3I 041	496 290		1														
7.	Wall socket with adapter «CH»	Z3I 450	380 319		1														
8.	EnerPro230CG	–	507 312				1												
9.	Fuse 4.0AT	–	433 350				1												
10.	Protection terminal	–	356 181				1												
11.	Fuse 2AT	–	145 745			3													
12.	Fuse 6.3AT	–	145 729			3													
13.	Terminal	–	184 939																
14.	Terminal bar	Z1I 010	385 288		1)														

1) additional as required

2.3. Supersedes Modules

Note:

Only those modules which are currently available are included in the block diagrams and configuration guidelines.

Replaced Modules				Replacement Modules			Notes
	Designation	Type	Part No.	Designation	Type	Part No.	
1.	Battery rack	R1L 020	342 496	Rack for 19"	R1L 040	433 648	B1F 050 mounted in rack R1L 040 with 4 spacer bolt part no. 305 624
2.	Power Supply Rack	R1P 060	462 428	Power Supply Rack	R1P 061	496 711	
3.	Power Supply Tower	R1P 070	452 878	Power Supply Rack	R1P 061	496 711	use serie H.... housing
4.	AC/DC Converter	BA01	437 602	no replacement			1)
5.	UA-Set	Z3I 040	356 194	UA-Set 230VAC	Z3I 041	496 290	
6.	PIA-Adapter	K1C 010	452 111	no replacement			1)
7.	Battery Charger	B1F 050	342 124	no replacement			1)

1) Use power supply rack R1P 061 part no. 496 711 and installation must be changed

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