

## Front Panels

### Description

Front panels are available for 19" DIN-rack mounting of 3 U cassette type power supplies in *Schroff* system version (*Intermas* system on request) and may be attached to the converter by means of countersunk screws.

An assembly kit, consisting of a front panel and a support bracket, enables arrangement of two standard cassettes with up to six output voltages in 6 U configuration.

All front panels are of colorless anodized aluminum and delivered with one or 2 grey plastic handles of 3 TE for easy pull-out and 2 or 4 hand-press insertable plastic retainers with captive screws for fixing to the rack.

**Note:** Custom specific front panels are available on request.

Dimensions according to DIN 41494-1 (IEC 60297):

Width: 1 TE = 5.08 mm (0.2")

Height: 1 U = 44.45 mm (1.75")

Tolerances:  $\pm 0.2$  mm, unless otherwise specified.

**Note:** In Europe, often *HE* instead of *U* is used.

### Schroff System for 3 U Rack

#### Q-, P- Series Front Panels in 4, 5, or 6 TE

These front panels available in three versions and fit to all DC-DC converters of the Q, P and HP Series; see fig. 1 for the mechanical details.

Table 1: Front panel selection for P and Q Series

| TE | X<br>mm | Case     | Conv.<br>series | Panel<br>type | Designation |
|----|---------|----------|-----------------|---------------|-------------|
| 4  | 20.0    | Q01, Q05 | Q, HP           | G04-Q01       | HZZ00835    |
|    |         | Q04      | P               | G04-Q04       | HZZ00840    |
| 5  | 25.1    | Q01, Q05 | Q, HP           | G05-Q01       | HZZ00836    |
|    |         | Q04      | P               | G05-Q04       | HZZ00841    |
| 6  | 30.2    | Q01, Q05 | Q, HP           | G06-Q01       | HZZ00839    |
|    |         | Q04      | P               | G06-Q04       | HZZ00842    |
| 8  | 40.3    | Q01, Q05 | Q, HP           | G08-Q01       | HZZ00846    |
|    |         | Q04      | P               | G08-Q04       | HZZ00850    |

**Note:** For using several units nearby to each other, we advise to pack them not too densely, in order to assure good thermal management (see also relevant data sheet).

#### Delivery contents:

Front panel, grey plastic handle, 3 countersunk screws, set of 2 plastic retainers with captive screws, and assembly instruction.

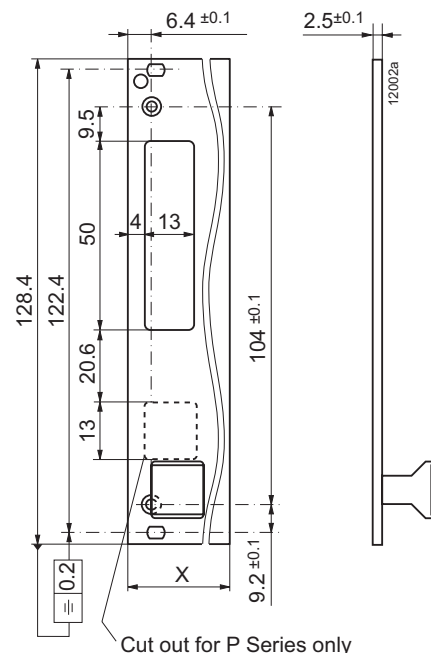


Fig. 1  
Front panel for Q, P and HP Series converters

### Front Panels 8 TE for M and LH Series

This front panel fits to all 50 Watt DC-DC and AC-DC converters of the M Series (case M02) and LH Series (case H02).

Table 2: Front panel selection for M and LH Series

| TE | mm   | Case size | Converter series | Panel type Designation |
|----|------|-----------|------------------|------------------------|
| 8  | 40.3 | M02       | M                | G08-M02                |
|    |      | H02       | LH               | HZZ00802               |

Delivery content:

Front panel with grey plastic handle, 2 countersunk screws, set of 2 plastic retainers with captive screws, and assembly instruction.

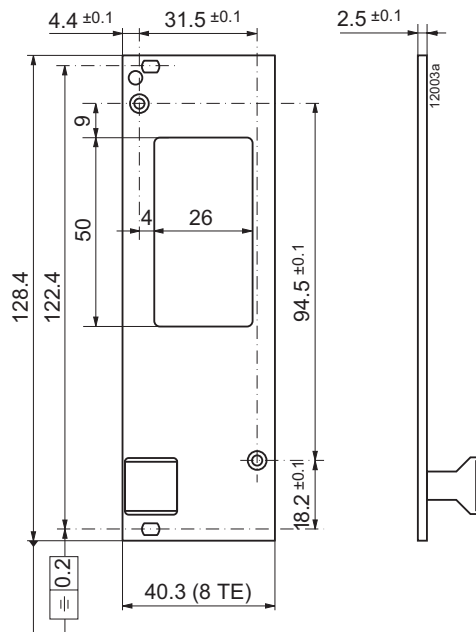


Fig. 2  
Front panel for M and LH Series

### Front Panels 8 TE for PSL Series

This front panel fits to the Switching Regulators of the PSL Series (case size L04).

Table 3: Front panel selection for PSL Series

| TE | mm   | Case size | Converter series | Panel type Designation |
|----|------|-----------|------------------|------------------------|
| 8  | 40.3 | L04       | PSL              | G08-L<br>HZZ00805      |
|    |      |           | PSL with opt. D  | G08-L04-D<br>HZZ00816  |

Delivery contents:

Front panel with grey plastic handle, 2 countersunk screws, set of 2 plastic retainers with captive screws and assembly instructions.

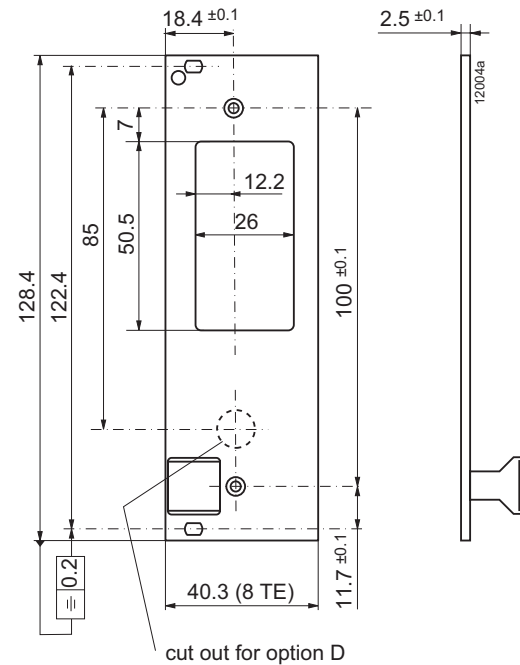


Fig. 3  
Front panel for PSL Series

### Front Panels 12 TE for S, HR, HRL, ER, ERL, PSS Front Panels 16 TE for K, HRP, ERP, PSK

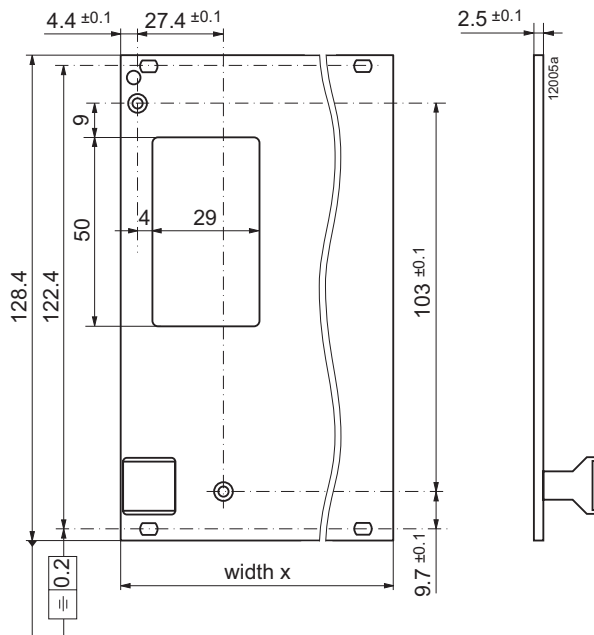
These front panels fit to the converter series mentioned in the table below

Table 4: Front panel selection for S, K, PSS, PSK, and all R Series converters

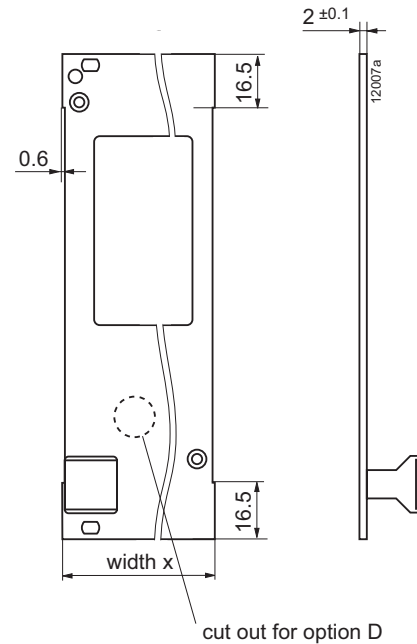
| Width x TE | mm   | Case size | Converter series | Panel type Designation |
|------------|------|-----------|------------------|------------------------|
| 12         | 60.6 | S01       | PSS              | G12-S<br>HZZ00845      |
|            |      | S02       | S                |                        |
|            |      | S03       | ERL, HRL         |                        |
| 16         | 81.0 | K01       | PSK              | G16-K<br>HZZ00831      |
|            |      | K02       | K                |                        |
|            |      | K03       | ERP, HRP         |                        |

Delivery contents:

Front panel with grey plastic handle, two countersunk screws, set of four plastic retainers with captive screws and assembly instructions.



**Fig. 4**  
Front panels for S, K, R, PSS, PSK Series; see table 4



**Fig. 5**  
Intermax system front panels (various case sizes)

### Intermax System for 3 U Rack

The major differences between the Intermax and the Schroff system front panels are the thickness (2 mm instead of 2.5 mm), the hole size for the plastic retainers, and a small cut-out on each side; see figure 5. All other dimensions are specified in the relevant Schroff front panel drawings.

The following Intermax front panels are available on request:

**Table 5: Intermax front panel selection**

| Width x<br>TE | mm   | Case<br>size | Converter<br>series | Panel type<br>Designation |
|---------------|------|--------------|---------------------|---------------------------|
| 8             | 40.3 | H02          | LH                  | F08-M02                   |
|               |      | M02          | M                   | HZZ00702                  |
| 8             | 40.3 | L04          | PSL                 | F08-L<br>HZZ00705         |
|               |      |              | PSL with opt. D     | F08-L04-D<br>HZZ00716     |
| 12            | 60.6 | S01          | PSS                 | F12-S<br>HZZ00732         |
|               |      | S02          | S                   |                           |
|               |      | S03          | HR, HRL, ER, ERL    |                           |
| 16            | 81.0 | K01          | PSK                 | F16-K<br>HZZ00731         |
|               |      | K02          | K                   |                           |
|               |      | K03          | HRP, ERP            |                           |

Delivery contents:

Front panel with grey plastic handle, 2 countersunk screws and assembly instructions.

### Schroff System Kit for 6 U Rack

To configure Melcher converters for use in 6 U racks, a special assembly kit has been created consisting of a double-height front panel together with a support bracket for 2 converters as shown in figure 6.

All other dimensions are given in the relevant 3 U front panel drawings according to their case size. The assembly kit is available with the type designation according to the following table:

Table 6: 6 U assembly kit selection

| Width x<br>TE | mm   | Case<br>size | Converter<br>series | Type<br>Designation         |
|---------------|------|--------------|---------------------|-----------------------------|
| 5             | 25.1 | Q01          | Q                   | Kit G05-6HE-Q01<br>HZZ00838 |
|               |      | Q05          | HP                  |                             |
|               |      | Q04          | P                   | Kit G05-6HE-Q04<br>HZZ00844 |
| 8             | 40.3 | H02          | LH                  | Kit G08-6HE-M02<br>HZZ00804 |
|               |      | M02          | M                   |                             |
| 12            | 60.6 | S01          | PSS                 | Kit G12-6HE-S<br>HZZ00833   |
|               |      | S02          | S                   |                             |
|               |      | S03          | HR, HRL, ER, ERL    |                             |
| 16            | 81.0 | K01          | PSK                 | Kit G16-6HE-K<br>HZZ00832   |
|               |      | K02          | K                   |                             |
|               |      | K03          | ERP, HRP            |                             |

Delivery contents:

Double-height front panel with 2 grey plastic handles, 4 countersunk screws, set of 2 plastic retainers with captive screws, a support bracket, and assembly instruction.

Supporting Angle P/Q (HZZ01302-G)

The kit contains the support angel XMS052-G and 2 counter sunk screws in a bag.

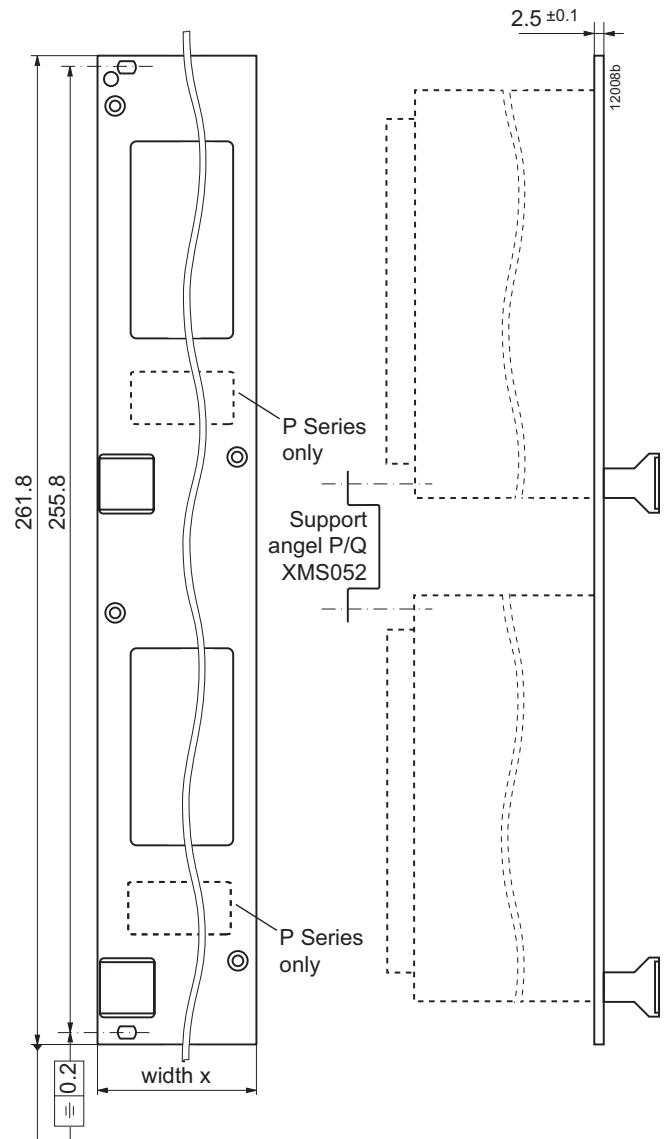


Fig. 6

Front panel for 6 U configuration (various case sizes).  
Different additional holes depending on the model are not shown in the drawing.

## DIN-Rack Systems

Complete 19" rack with side walls, transversal rails, and mounting flanges. 6 guiding rails are included for set up of a system. The rails shall be fixed to the rack by the included screws (12 screws M2.5 x 12 and 12 nuts).

The rack can be used for 19" cassette style converters such as Q, P, HP, M, K, S, R, etc. (additional guiding rails XKR001-G may be necessary).

Part no.: MQB02002 (system Rittal)  
Size: 19" x 3 U / 84 HP (483 x 132 x 235 mm)  
Guiding rails: HZZ01228-G (10 pcs XKR001-G in a bag)



Enhanced version for Railway application (system Schroff):

Part no.: MQB02020G  
Guiding rails: HZZ01230-G (10 pcs. XAD.00056 + screws and nuts in a bag).

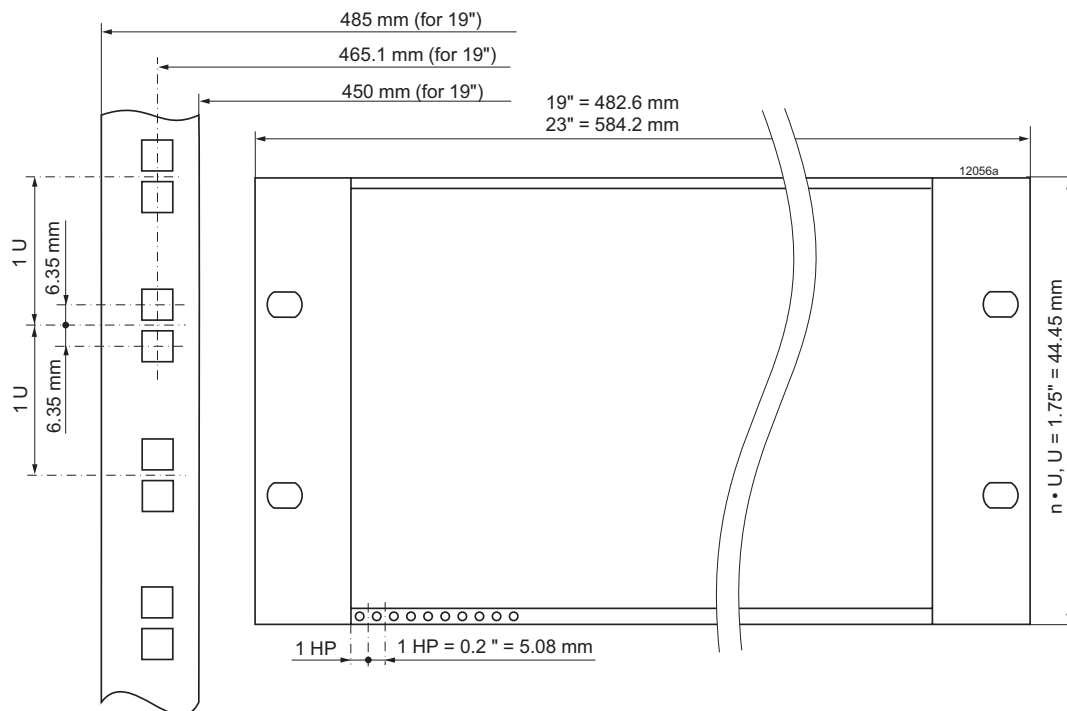


Fig. 7  
19" DIN-Rack systems

Dimensions in according to DIN 41494-1 (IEC 60297):

Width: 1 HP (or TE) = 5.08 mm (0.20"); height: 1 U (or HE) = 44.45 mm (1.750")

Tolerances  $\pm 0.2$  mm, unless otherwise specified.

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