

8.1.3. POWERED RACK MOUNTED SERIES

The powered mounted series consists of a number of powered 19" sub-rack reference. A powered rack or case includes as standard an AC/DC (either linear or switching) converter board to convert the power from the main electrical power and to deliver it to the other functional boards (amplifier, conditioner & controller) presented in the next paragraphs. The powered 19" sub-rack can be inserted in an industrial cabinet.

The powered bench top (Fig. 8.d next page) and the powered 19" sub-rack (Fig. 8.e next page) allow for various combinations of amplifier, sensor conditioner and controller boards with single or multi channels as well as output power options.

The Table 8.d shows the different possibilities to build your configuration.

PARAMETER	RK42F3U -LC75B	RK42F4U -LC75C	RK84F4U -1LC75B	RK84F4U -1LC75C	RK84F4U -2LC75C	RK84F4U -3LC75C	RK84F4U -1SC75D	RK84F4U -2SC75D
> Application								
AC-DC converter topology	Linear						Switching converter	
Max. No. of hosted amplifiers & conditioner boards	2 in total (d.1)	1 of each	6 in total (d.1)	6 in total (d.1)	2 of each (d.1)	3 of each (d.1)	1 of each	2 of each
Max supplied current	0.75 A	2.55 A	0.75 A	2.55 A	5.1 A	7.65 A	20 A	2 x 20 A
> Power supply								
Supply voltage	110/240 VAC							
Supply frequency	50-60 Hz							
> Protections								
Protection type (d.2)	T., OC., HBD.	T., OC., HBD.	T., OC., HBD.	T., OC., HBD.	T., OC., HBD.	T., OC., HBD.	T., OC., OV.	T., OC., OV. (d.3)
> Board compatibility								
LA75A - Up to 3 channels	✓		✓	✓				
LA75B - Up to 2 channels	✓		✓	✓				
LA75C - 1 channel		✓		✓	✓	✓		
SA75A - Up to 2 channels							✓	✓ (d.4)
SA75B - Up to 2 channels							✓	✓ (d.4)
SA75D - 1 channel							✓	✓
SG75 - Up to 3 channels	✓	✓ (d.4)	✓	✓	✓	✓	✓	✓
ECS75 - Up to 3 channels	✓	✓ (d.4)	✓	✓	✓	✓	✓	✓
UC65	✓		✓	✓		✓	✓	✓

Table 8.d Characteristics of powered racks

d.1 Sum should not exceed the max supplied current

d.2 T: Thermal; OC: Overcurrent; HBD: Hosted board default; OV: Overvoltage

d.3 Each SC75 board

d.4 Only 1 channel