

### General Data for one inverter included in the RICOSO Rack

Weight	60 kg
Dimensions converter slot (W×H×D)	480 mm × 270 mm × 500 mm
480 mm × 270 mm × 500 mm	600 mm × 1817 mm × 800 mm

### Electrical Data

Nominal apparent power $S_N$	43,5 kVA @ 400 V
Maximum apparent power $S_{N,max}$	68 kVA @ 620 V *
Rated grid voltage $V_{LL,eff}$	400-620 V
Maximum DC link voltage (incl. fluctuation due to e.g. skewed load)	1200 V
DC current	75 A
Rated phase current $I_{LN}$	63 A
Nominal neutral conductor current $I_{NN}$	63 A
Power factor range at rated current	<i>Symmetrical (3 phases):</i> Inductive / capacitive 0.03 ... 1.0 <i>Asymmetrical (1 phase):</i> Inductive / capacitive 0.5 ... 1.0
Topology	ANPC 4-Leg @ 72 kHz
Maximum skewed load	Zero sequence maximum $1/3 S_N$ (corresponds to zero conductor current of $I_N = I_{NN,RMS} = 63 A$ )
Total harmonic distortion	1,33 % at rated power
Efficiency of inverter	> 98 % (target value)
Bandwidth	1 kHz without derating max. 2,3 kHz with derating *

### Communication Interfaces

Ethernet TCP/IP	available
CAN	available
PROFINET	available
Fibre Optics (direct FPGA access)	available

\* to be verified