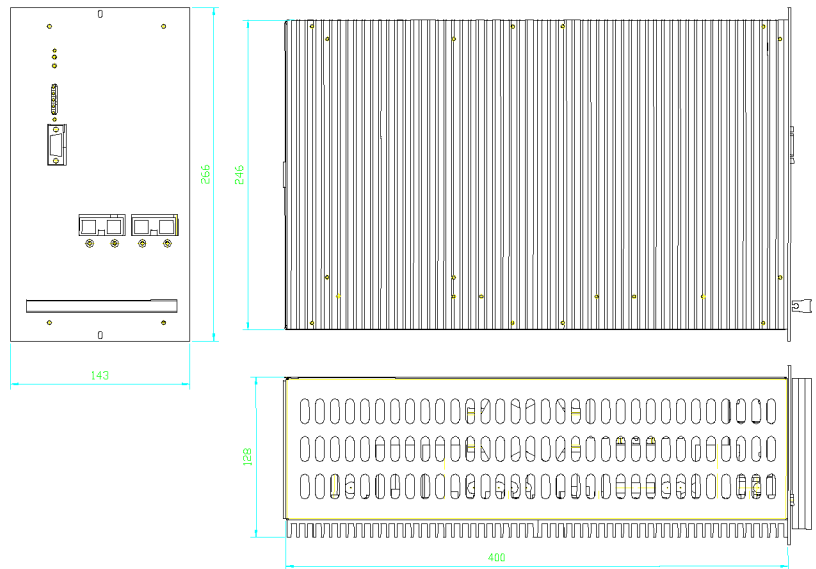




DC/DC Converter Module (non isolated)



110Vdc / 120Vdc

DC Input

Rated Voltage	110V DC
Voltage Range	80-140V DC
Rated Current	52A DC (max 71A)
Inrush Current	$\leq 2 I_{nom}$
Efficiency	$\geq 92\%$ @ Load >10% $\geq 95\%$ @ Load >50%

DC Output

Rated Voltage	120V DC
Rated Current	45A DC
Rated Power	5400W
Adjustable voltage range	100-130V DC
Output Under/Over Voltage cut-in thresholds	108V DC / 132V DC
Voltage Ripple	$\leq 1\% V_{nom}$ (RMS)
Static Regulation	$\pm 1\% V_{nom}$
Dynamic Regulation (load step 5 \leftrightarrow 45A)	$< 4\% V_{nom}$ (recovery time < 200 ms)
Short Circuit Protection	Continuous short circuit proof; $1 \times I_{nom}$
Galvanic In/Out Insulation	No positive line in common to input & output
Parallel Operation	Yes current sharing $\leq 10\% I_{nom}$
Internal Decoupling	Yes decoupling diode in the negative out line

Control & Signalling

Signalling LED	Operation (green), Alarm (red)
Volt free signalling contacts	"General Fault"; relay COM/NO/NC

Environmental conditions

Ambient Temperature	Operation: 0°C to $+40^{\circ}\text{C}$, Storage: -25°C to $+70^{\circ}\text{C}$
Relative Humidity	$\leq 95\%$ @ 40°C , non condensing
Max Installation Altitude	1500m a.s.l.
Audible Noise	$< 45\text{dB}$ (A)

Mechanical Characteristics

Cooling	Natural air convection
Dimensions / Mass	L143 x D400 x H266 mm / 7 kg approx
Colour	Front Panel: RAL 7035; Body: coated steel
Rack-mounted System	L 482.6mm (19") x H 355mm (8U) Depth (mm): 472+100 connectors on front panel

Standards

CE Conformity	Yes
Safety	EN60950; EN60146
EMC	EN55022; EN61000