



CFQor converters in quarter-brick packages

Full power operation from -40°C to +100°C

The CFQor dc/dc converters are designed to provide isolated dc power for applications requiring CF Body Contact and Defibrillation Pulse withstand capability as specified in EN60601. These fixed-switching frequency converters use SynQor's synchronous rectifier based technology to achieve extremely high-efficiency. The CFQor quarter-brick series delivers 105W from a nominal input voltage of 12V, 24V or 48V and includes output voltages of 5V, 12V, 15V or 24V. Each module is supplied completely encased to provide protection from harsh environments, and is available with an optional flanged style baseplate.



Features include remote on/off, +10% to -20% output voltage trim range, remote sense, input under-voltage lockout, output over-voltage protection, active back bias limit, thermal shutdown, output current limit and short circuit protection. The CFQor quarter-brick series was designed for 4250V, 100MΩ input-to-output isolation and is 6/6 RoHS compliant.

PRODUCT MATRIX		Input Voltage Range	
CF12 Input Range: 9-22V Max. Power: 105W Eff. @12V: 91%			
	CF24 Input Range: 18-36V Max. Power: 120W Eff. @12V: 93%		
		CF48 Input Range: 34-75V Max. Power: 150W Eff. @12V: 92%	

Product Highlights	
Features <ul style="list-style-type: none"> ▪ High efficiency, 93% at full rated load current ▪ Delivers full power with minimal derating - no heatsink required ▪ Operating input voltage range: 9-75V ▪ Fixed frequency switching provides predictable EMI ▪ No Minimum Load Requirements ▪ Input under-voltage lockout ▪ Output current limit and short circuit protection ▪ Active back bias limit ▪ Output over-voltage protection ▪ Thermal shutdown 	Safety/Regulatory Certifications <p>Reinforced Insulation</p> <ul style="list-style-type: none"> ▪ 4250V, 100 MΩ input-to-output ▪ UL 60601-1:2003 ▪ CAN, CSA 22.2 No. 601.1-M90 ▪ EN 60601-1/A2:1995 ▪ IEC 60601-1/A2:1995 ▪ CF Patient Contact ▪ Defibrillation Proof ▪ RoHS compliant