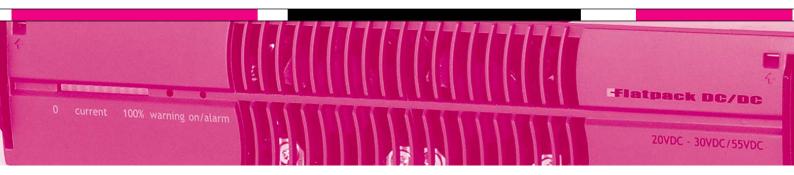
Flatpack DC/DC 24/48 |

DC/DC Converter





The Flatpack DC/DC 24/48 is a modular hot plug-in DC/DC converter prepared for stand-alone use, or for working in parallel as part of a DC/DC rack system.

The converter is specially designed to provide a high quality and highly reliable DC output voltage.

Switch mode technology with soft switching and high switching frequency is used to minimise volume and weight, and to obtain fast output voltage regulation.

The module has a soft start power-up. When working in parallel, the converters provide active current sharing. An internal blocking diode allows hot plug-in and isolates any faults in the converter output from the DC-bus.

Several internal protection circuits ensure safe operation, even outside specified limits for normal operation.

A module failure alarm is given if the module shuts down due to high/low input voltage, high output voltage (selective), or in case of an internal failure.

Converters connected in parallel will exhibit active load sharing, even without a Monitoring and Control Unit.

Front LEDs show power ON/OFF and alarm status in addition to a LED bar graph for output current indication.

The Flatpack DC/DC 24/48 will operate in ambient temperatures up to $+75^{\circ}$ C ($+167^{\circ}$ F). At temperatures above $+65^{\circ}$ C ($+149^{\circ}$ F), the output power may be derated.



FLATPACK DC/DC 24/48

SPECIFICATIONS

		1
INPUT		Visua
Input Voltage range	19.8-32 VDC	indica
Maximum Current	73 Amps at 19.8 VDC input	
Protection	Soft start Internal fuse Automatic shutdown for input voltages < 19.5 VDC and > 30 VDC	Efficie Opera Temp
OUTPUT		Stora
Output Voltage	55 VDC (43-59 VDC adjustable)	Coolir
Output Power	1250 W	Dime
Output Current	23 Amps	
Current Share	± 1 Amp	Weigl
Static Voltage Regulation	±0.5% from 0 to full load	APP Electr
Dynamic Voltage Regulation	±1.0% for 10-90% or 90-10% load variation	EMC
Ripple and Noise	<100 mV peak to peak, 30 MHz bandwidth	
Protection	Blocking diode Non-destructive short circuit operation and selective high output voltage shutdown (59.5V)	
		Enviro

ı	OTTILIX		CITICATIONS	
	Isolation		ut/ Earth: 600 VDC	
	Voltages	Inp	put/ Output: 600 VDC	
			put/ Earth: 600 VDC	
	Converter	No	output voltage	
	alarms	Ove	ervoltage shutdown	
			failure	
		Hig	h temperature shutdown	
			ort circuit/ fold back activated	
	Converter		input voltage out of range	
	warnings		gle fan failure	
			h temperature/ derating activated	
-			rent limit	
	Visual	Green LED: ON, no faults		
	indications		LED: No output, converter failure	
	maicacions		ow LED bargraph: measuring	
_]			put current (0-100%)	
1	Efficiency	90% at full load		
	Operating		to +65°C (-40 to +149°F)	
	Temp		5 to +75 °C (+149 to +167°F):	
	тептр		nperature dependent power	
	Ctorage Tom		ting may occur -40 to +85 °C (-40 to +185°F)	
-	Storage Temp			
	Cooling		Speed controlled fans	
┪	Acoustic Nois	se	<60dBA	
4	Dimensions		218 x 43 x 240mm (wxhxd)	
4			(8.58 x 1.69 x 9.45")	
Weight			< 3kg (< 6.6lbs)	
	APPLICABLE STANDARDS			
1	Electrical saf	ety	EN 60950, UL 60950	
	EMC		ETSI EN 300 386 V.1.3.1	
1			(telecommunication network)	
			ÈN 61000-6-3	
1			(emission, light industry)	
			EN 61000-6-2	
			(immunity, industry)	
			EN 61000-6-4 (emission, industry)	
	Environment		EN 61000-6-1 (immunity, light	
			industry)	
			Telcordia GR1089 CORE	
			ETSI EN 300 019-2	
			ETSI EN 300 132-1	
			ETSI EN 300 132-2	
			Telcordia GR63 CORE Zone 4	
			ETSI EN 300 753 class 3.1	
			(acoustic noise)	
			-	

OTHER SPECIFICATIONS

Specifications are subject to change without notice.

ORDERING INFORMATION

Part no.	Description
241114.500	Flatpack DC/DC 24/48 converter

241114.500. DS3 v.02

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