



500UFR series

Single & Dual Output DC/DC Converter

DESCRIPTIONS

The 500UFR series 5 and 6 watts power modules are high efficiency, low profile dc-dc converters that operate over input voltage ranges of 9-36 VDC and 18-72 VDC, and provide precisely regulated output voltages of 5V, 9V, 12V, 15V, $\pm 12V$ and $\pm 15V$.

The $-25^{\circ}C$ to $+71^{\circ}C$ operating temperature range makes it ideal for data communication equipment, mobile battery driven equipment, distributed power systems, telecommunication equipment, mixed analog/digital subsystems, process/machine control equipment, computer peripheral systems and industrial robot systems.

OUTPUT CHARACTERISTICS

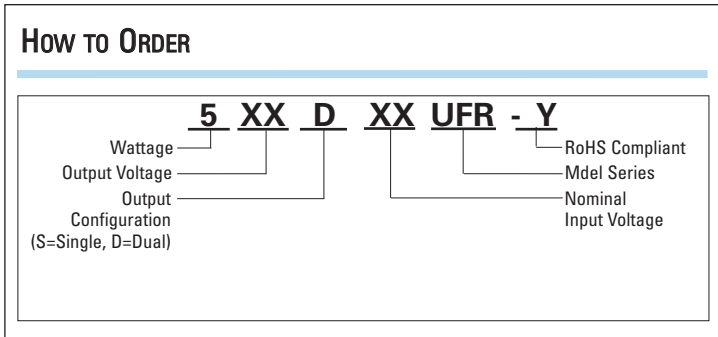
	Min	Typ	Max	Unit/Comments
Output Voltage Set Point			± 1.0	% Output voltage at nominal line & FL
Output Voltage Balance (Dual Output)			± 1.0	% Equal Output Loads
Line Regulation			± 0.2	% Output voltage measured from min. input line to maximum
Load Regulation			± 0.5	%; Max. to 10% load @ Nominal Line
Ripple/Noise			100	mV; p-p
Short Circuit Protection				Continuous, Automatic Recovery
Temperature Coefficient			± 0.02	% per degree C

FEATURES

- Up to 75% Efficiency
- Single & Dual Output, 5 to 6 watt converter
- 500 VDC Input / Output Isolation
- Short Circuit Protection
- Wide 4:1 Input Voltage Range

GENERAL CHARACTERISTICS

	Min	Typ	Max	Unit/Comments
Switching Frequency	80		120	kHz
Isolation Voltage	500			VDC, 1 minute
Isolation Resistance	1000			Mohm, 500VDC
Input Filter				Pi Filter



MODEL SELECTION CHART

Model	Nominal Input Voltage (VDC)	Input Voltage Range (VDC)	Input Current No Load (mA)	Input Current Full Load (mA)	Output Voltage (VDC)	Full Load Output Current (mA)	Efficiency @ FL (%)
505S24UFR	24	9 - 36	20	300	5	1000	70
509S24UFR	24	9 - 36	20	290	9	550	71
512S24UFR	24	9 - 36	20	340	12	500	74
515S24UFR	24	9 - 36	20	340	15	400	74
505S48UFR	48	18 - 72	20	145	5	1000	72
509S48UFR	48	18 - 72	20	142	9	550	73
512S48UFR	48	18 - 72	20	167	12	500	75
515S48UFR	48	18 - 72	20	167	15	400	75
512D24UFR	24	9 - 36	25	340	±12	±250	74
515D24UFR	24	9 - 36	25	335	±15	±200	75
512D48UFR	48	18 - 72	15	167	±12	±250	75
515D48UFR	48	18 - 72	15	167	±15	±200	75