



MODEL 382

Wide Input Range Down Converter

22 Vdc-60 Vdc to 13.6 Vdc

Design Features

- Low Input Voltage Cutout
- Compact design
- Convection Cooled
- **High Efficiency- 96%**
- Common Input/Output Negative Terminal
- Soft start technology

SPECIFICATIONS

INPUT	NOMINAL INPUT VOLTAGE	48 VDC
	INPUT VOLTAGE RANGE	22 to 60 (+/- 0.5) VDC
	INPUT CURRENT AT MAX CONTINUOUS POWER	16.5 A / 8.2A @ 24 / 48 V _{in}
	MAX. INPUT CURRENT AT NO LOAD	0.30 A when converter is in "ON" state
	MIN. INPUT CURRENT AT NO LOAD	<0.002 A when converter is in "OFF" state
OUTPUT	OUTPUT VOLTAGE	13.6 - 13.8 VDC (factory set, internally adjustable)
	OUTPUT VOLTAGE REGULATION	< 40 mV, NL to Full Load
	RATED MAX OUTPUT CURRENT	30 A
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	400 W
	OUTPUT RIPPLE & NOISE	<50 mV RMS
	EFFICIENCY AT 83 % MAX CURRENT (25A)	96%
PROTECTIONS	LOW INPUT VOLTAGE SHUTDOWN	19.0 - 21.0 VDC
	HIGH INPUT VOLTAGE SHUTDOWN	> 64.0 VDC
	OVERLOAD CURRENT LIMITING	Electronic knee type at power limit
	OVER TEMPERATURE SHUTDOWN	Yes (Auto reset)
	INPUT REVERSE POLARITY PROTECTION	Replaceable Input Fuse Internally Accessible
RF TRANSPARENCY	High pass filters allow RF signals in the PLC4 spectrum to pass between input and output terminals with attenuation <3dB	
CONNECTIONS	INPUT CONNECTION	WECO Screw Terminal Block
	OUTPUT CONNECTION	WECO Screw Terminal Block
	REMOTE CONTROL PORT	Yes
ENVIRONMENT	AMBIENT AIR OPERATING TEMPERATURE RANGE	-30C to +50C no derating Derate 15% per 10C above 50C to a maximum of 60C
	OPERATING HUMIDITY	<95%, non condensing
	ALTITUDE	6000 meters
MECHANICAL	DIMENSIONS, INCHES (L x W x H)	7.8 x 6.9 x 3.6
	MOUNTING CENTERS, INCHES (L x W x H)	7.30 x 3.38
	VIBRATION & SHOCK RESISTANT	Internally Encapsulated
	WEIGHT (LB/KG)	6.0 / 2.75

NOTE: Specifications are subject to change without notice.



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SPECIFICATIONS

INPUT	NOMINAL INPUT VOLTAGE	48 VDC
	INPUT VOLTAGE RANGE	22 to 60 (+/- 0.5) VDC
	INPUT CURRENT AT MAX CONTINUOUS POWER	31.0 A / 15.5 A @ 24 / 48 V _{in}
	MAX. INPUT CURRENT AT NO LOAD	0.30 A when converter is in "ON" state
	MIN. INPUT CURRENT AT NO LOAD	<0.002 A when converter is in "OFF" state
OUTPUT	OUTPUT VOLTAGE	13.6 - 13.8 VDC (factory set, internally adjustable)
	OUTPUT VOLTAGE REGULATION	< 40 mV, NL to Full Load
	RATED MAX OUTPUT CURRENT	60 A
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	800 W
	OUTPUT RIPPLE & NOISE	<50 mV RMS
	EFFICIENCY AT 83 % MAX CURRENT (50A)	96%
PROTECTIONS	LOW INPUT VOLTAGE SHUTDOWN	19.0 - 21.0 VDC
	HIGH INPUT VOLTAGE SHUTDOWN	> 61.0 VDC
	OVERLOAD CURRENT LIMITING	Electronic knee type at power limit
	OVER TEMPERATURE SHUTDOWN	Yes (Auto reset)
	INPUT REVERSE POLARITY PROTECTION	Replaceable Input Fuses Internally Accessible
RF TRANSPARENCY	High pass filters allow RF signals in the PLC4 spectrum to pass between input and output terminals with attenuation <3dB	
CONNECTIONS	INPUT CONNECTION	WECO Screw Terminal Block
	OUTPUT CONNECTION	WECO Screw Terminal Block
	REMOTE CONTROL PORT	Yes
ENVIRONMENT	AMBIENT AIR OPERATING TEMPERATURE RANGE	-30C to +50C no derating Derate 15% per 10C above 50C to a maximum of 70C
	OPERATING HUMIDITY	<95%, non condensing
	ALTITUDE	6000 meters
MECHANICAL	DIMENSIONS, INCHES (L x W x H)	13.8 x 6.9 x 3.6
	MOUNTING CENTERS, INCHES (L x W x H)	13.30 x 3.38
	VIBRATION & SHOCK RESISTANT	Internally Encapsulated
	WEIGHT (LB/KG)	12 / 5.5

NOTE: Specifications are subject to change without notice.