

PU500

400-500 WATTS DC/DC INDUSTRIAL CONVERTER

FEATURES

- 400W - 500W Industrial Converter
- Optimized input voltage ranges
- Input ranges from 18 to 300Vdc
- Single outputs from 24 to 60Vdc
- Reverse input voltage protection
- Fully encapsulated meets IP20
- Overvoltage Protection OVP
- Extra output with series diode
- Over/under voltage alarm with relay output
- Output voltage adjustable from front panel
- 19' Rack Mount or DIN Mount or Wall Mount



SPECIFICATIONS

INPUT		FEATURES
Input voltages	24Vdc: 18-32Vdc	Overvoltage protection OVP The output voltage is limited to 15% over nominal output voltage by a extra regulated circuit
	48Vdc: 38-60Vdc	Voltage Sense External output voltage sense used when the voltage regulation at the load is critical. The sense can compensate voltage drops up to 5% of the nominal voltage
	110Vdc: 88-150Vdc	Remote sense External sense is used when the voltage regulation at the load is critical. The sense can compensate voltage drops up to 5% of nominal voltage
	220Vdc: 175-300Vdc	Voltage Alarm Over / Under voltage alarm built in relay changes state if converter output voltage is not within 90% to 115% of nominal output. User selects NO or NC relay function. The relay is rated 30V 0.5A
OUTPUT		Inhibit input / Power down This input allows remote start and shutdown of the converter by a signal voltage of 5 to 12V. Max 35mA
Output voltages	See Selection Table	OPTIONAL FEATURES
Output current	See Selection Table	Series Diode Use the series diode output when the output is connected in parallel with other power supplies to achieve redundancy. The output current is derated with 10% on 24 to 48V outputs.
Source regulation	0.1%	Conformal coating For environment with high non condensing humidity, max 98% RH
Load regulation	0.2% (0 to 100% load)	Inrush current Inrush current limit with NTC, reduces the inrush current during start up. The input voltage range will be affected. Only available on C & D inputs.
Transient recovery	<3ms. 10 to 90% load step to within 3% of nominal output voltage	Mounting Options See Technical Illustrations
Output ripple	Typ 30mV (60kHz)	STANDARDS
Input ripple	150:1 attenuation on Output (50-400Hz)	Safety standards IEC60950, Low Voltage Directive
Temperature coefficient	0.02% per °C	C-Tick AS/NZS CISPR11 Group 1, Class A
Output adjustment	95%-110% with 15 Turn potentiometer	EMC EN IEC 61000-6-3, Emission EN IEC 61000-6-2, Immunity EN IEC 61000-4-4, 4kV EN IEC 61000-4-5 level 2 & 3
Current limit	105%, rectangular	MECHANICAL
Remote sense	Yes	Dimensions 232 x 210 x 86mm
Soft start	Yes	Weight 4.2kg
Startup time	1 Sec	Mounting See Technical Illustrations
Holdup time	2 - 25ms	
OPERATING		
Efficiency	88%-91%	
Design topology	Push-pull	
Switching frequency	40kHz	
Overvoltage protection	Yes, 115% of nominal voltage	
Isolation	Input / Output: 24, 48, 72, 2kVdc	
	Input / Output: 10, 220, 2.5kVac, 4kVdc	
	Input / Case: 24, 48, 72, 2kVdc	
	Input / Case: 110, 220, 2.5kVac, 4kVdc	
	Output / Case: < 75Vdc output, 2kVdc	
	Output / Case: > 75Vdc output, 2.5kVac, 4kVdc	
ENVIRONMENTAL		
Operating Temperature	-25°C to +55°C (100% load) +55°C to +70°C (with derating)	
Temperature coefficient	0.02%/°C	
Storage temperature	-40°C to 85°C	
Cooling	Convectional cooling.	

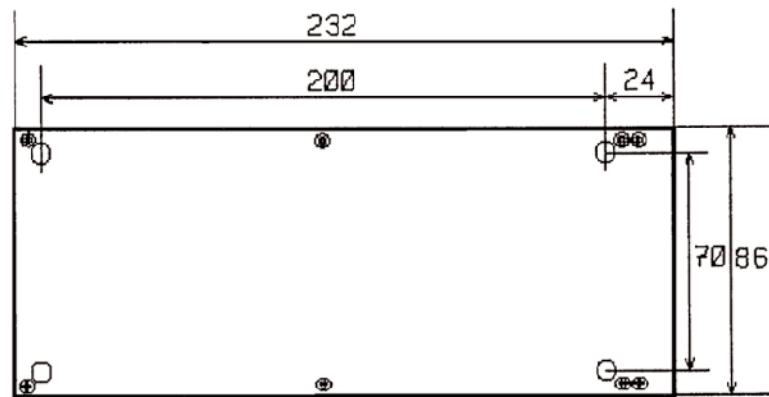
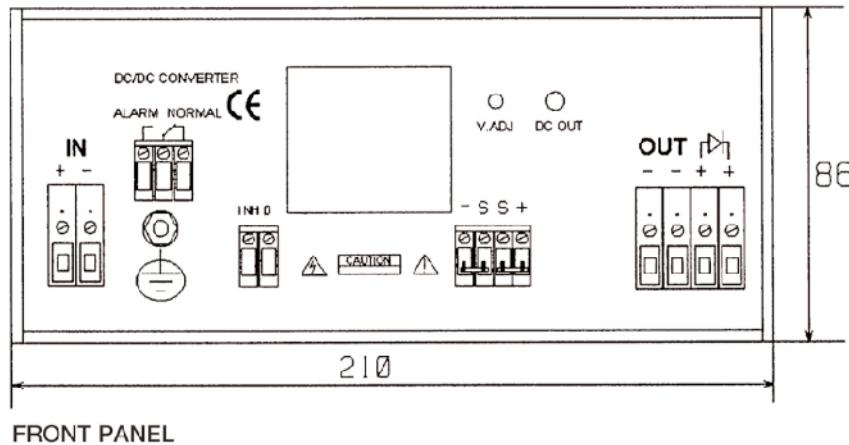
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SELECTION TABLE

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	POWER
PU500 24/24	18-32V	24V	16.7A	400W
PU500 24/28	18-32V	28V	14.3A	400W
PU500 24/36	18-32V	36V	11.2A	400W
PU500 24/48	18-32V	48V	8.4A	400W
PU500 24/60	18-32V	60V	6.7A	400W
PU500 48/24	38-60V	24V	20.9A	500W
PU500 48/28	38-60V	28V	17.9A	500W
PU500 48/36	38-60V	36V	13.9A	500W
PU500 48/48	38-60V	48V	10.5A	500W
PU500 48/60	38-60V	60V	8.4A	500W
PU500 110/24	88-150V	24V	20.9A	500W
PU500 110/28	88-150V	28V	17.9A	500W
PU500 110/36	88-150V	36V	13.9A	500W
PU500 110/48	88-150V	48V	10.5A	500W
PU500 110/60	88-150V	60V	8.4A	500W
PU500 220/24	175-300V	24V	20.9A	500W
PU500 220/28	175-300V	28V	17.9A	500W
PU500 220/36	175-300V	36V	13.9A	500W
PU500 220/48	175-300V	48V	10.5A	500W
PU500 220/60	175-300V	60V	8.4A	500W

TECHNICAL ILLUSTRATIONS

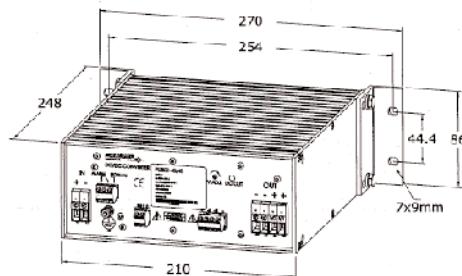


SIDE VIEW

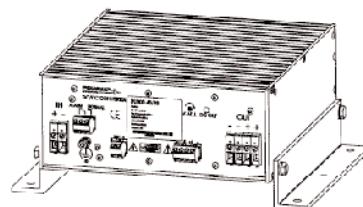
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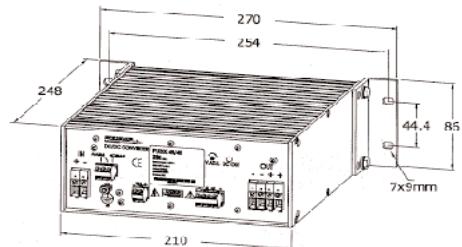
MOUNTING OPTIONS



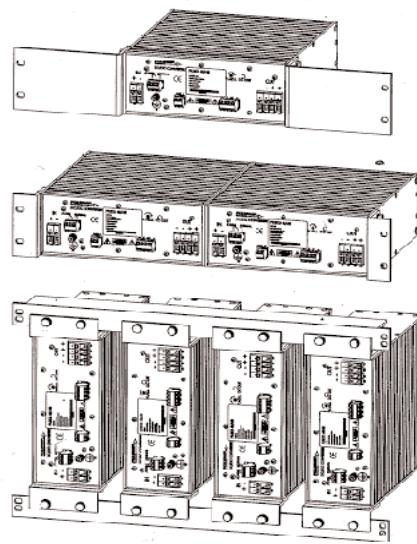
PU300/500 wallmounted. Brackets PL86-1 (standard)



PU300/500 wallmounted, L216-1 (optional)



PU300/500 wallmounted. Brackets PL86-1 (standard)



PU300/500 19" rack.
1) Brackets L86-3 (optional)
2) 19" rack mounting set (optional)
3) Standard brackets + L480-1 (optional)