

PU300

216W - 300W WATTS DC/DC INDUSTRIAL CONVERTER

FEATURES

- 216W - 300W
- Industrial Grade Converter Optimized input voltage ranges
- Input ranges from 10 to 270Vdc
- Single outputs from 12 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 Wall Mount



SPECIFICATIONS

INPUT	
Input voltages	A: 10-30Vdc B: 20-60Vdc C: 50-150Vdc D: 90-270Vdc
Reverse input voltage protection	Parallel diode, Code (A) (B) (24) (48) Series diode, Code (C) (D) (110) (220)
OUTPUT	
Output voltages	See Selection Table
Adjustment range	95%–110%, Adjustment with 15 turn potentiometer
Output ripple	Typ 15mVp-p (80kHz)
Source regulation	0.1%
Load regulation	0.2% (0 - 100%) load
Temperature coefficient	0.02% per °C
Current limit	105% Rectangular
Remote sense	Yes
Transient recovery	<3ms. Load step to within 3% of nominal output voltage for 10% to 90%
Soft start	Yes
Startup time, type	1 sec.
Holdup time	2–25ms
OPERATING	
Efficiency	77%–88%
Design topology	Push-pull
Switching frequency	40kHz
Isolation	Input- Output: 2kVdc (input code A,B) Input- Output: 2.5kVac / 4kVdc (input code C,D) Input- Case: 2kVdc (input code A,B) Input- Case: 2.5kVac / 4kVdc (input code C,D) Output- Case: 2kVdc (all outputs)
ENVIRONMENTAL	
Operating temperature	Range at 100% load: -25°C to +55°C 100% load
Conduction cooling	width:260px; height:27px" >With derating: -25°C to +70°C
Storage temperature range	-40°C to +85°C

FEATURES	
Overvoltage protection OVP	The output voltage is limited to 15% over nominal output voltage by a extra regulated circuit
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
Remote sense	External sense is used when the voltage regulation at the loa is critical. The sense can compensate voltage drops up to 5% of nominal voltage
Extra Output with series diode	Use the series diode output when the output is connected in parallel with other power supplies to achieve redundancy
Voltage Alarm	Over / Under voltage alarm built in relay changes state if converter output voltage is not with 90% to 115% of nominal output. User selects NO or NC relay function. The relay is rated 30V 0.5A
OPTIONAL FEATURES	
Conformally coating	For environment with high non condensing humidity, max 98% RH
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.
Mounting Options	See Technical Illustrations
STANDARDS AND APPROVALS	
Safety standards	IEC950, EN60950, CE LVD 73/23/EEC
C-Tick	AS/NZS CISPR11 Group 1, Class A
EMC standards	EN/IEC 61000-6-2, EN/IEC 61000-4-2, EN/IEC 61000-4-3, EN/IEC 61000-4-4, EN/IEC 61000-4-5, EN/IEC 61000-4-6
EMI standards	EN/IEC 61000-6-3 EN55011/EN55022 Level B
MECHANICAL	
Dimensions	86 x 210 x 232mm, See Technical Illustration
Weight	4.2kg
Mounting brackets	Supplied with L86-1 mounting bracket, See Technical Illustration

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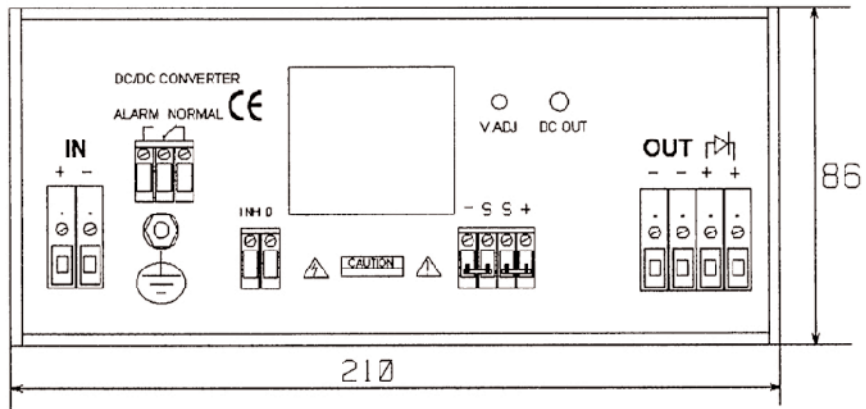
SELECTION TABLE

MODEL NUMBER	INPUT	OUTPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT POWER
PU300A12	10-30V	12V	18A	216W
PU300A13.8	10-30V	13.8V	16A	220W
PU300A15	10-30V	15V	16A	240W
PU300A24	10-30V	24V	10A	240W
PU300A28	10-30V	28V	8.58A	240W
PU300A36	10-30V	36V	6.67A	240W
PU300A48	10-30V	48V	5A	240W
PU300A60	10-30V	60V	4A	240W
PU300B12	20-60V	12V	25A	300W
PU300B13.8	20-60V	13.8V	21.8A	300W
PU300B15	20-60V	15V	20A	300W
PU300B24	20-60V	24V	12.5A	300W
PU300B28	20-60V	28V	10.8A	300W
PU300B36	20-60V	36V	8.34A	300W
PU300B48	20-60V	48V	6.25A	300W
PU300B60	20-60V	60V	5A	300W
PU300C12	50-150V	12V	25A	300W
PU300C13.8	50-150V	13.8V	21.8A	300W
PU300C15	50-150V	15V	20A	300W
PU300C24	50-150V	24V	12.5A	300W
PU300C28	50-150V	28V	10.8A	300W
PU300C36	50-150V	36V	8.34A	300W
PU300C48	50-150V	48V	6.25A	300W
PU300C60	50-150V	60V	5A	300W
PU300D12	90-270V	12V	25A	300W
PU300D13.8	90-270V	13.8V	21.8A	300W
PU300D15	90-270V	15V	20A	300W
PU300D24	90-270V	24V	12.5A	300W
PU300D28	90-270V	28V	10.8A	300W
PU300D36	90-270V	36V	8.34A	300W
PU300D48	90-270V	48V	6.25A	300W
PU300D60	90-270V	60V	5A	300W

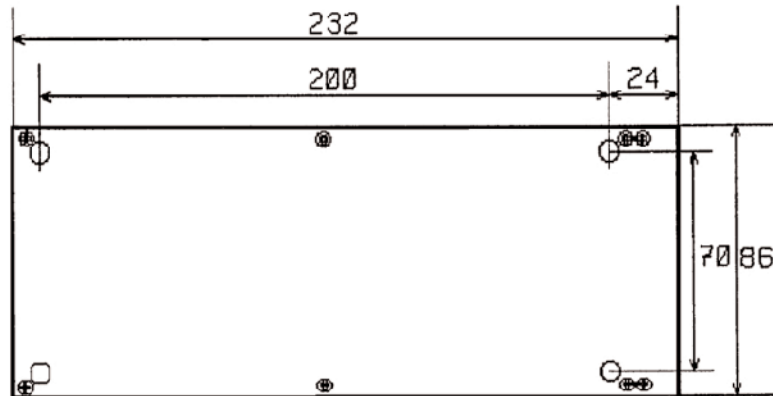
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TECHNICAL ILLUSTRATIONS



FRONT PANEL

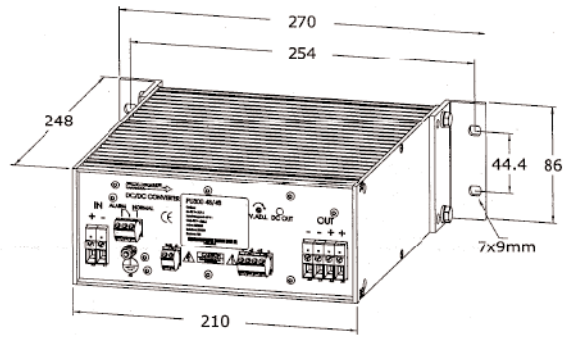


SIDE VIEW

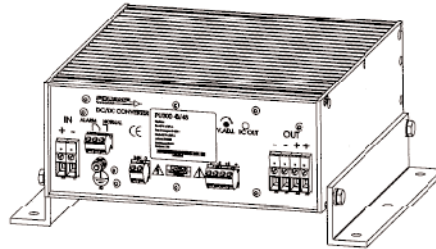
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MOUNTING OPTIONS

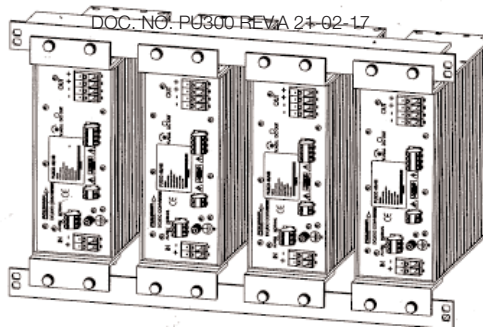
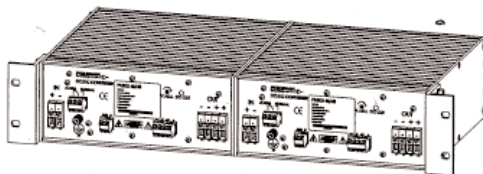
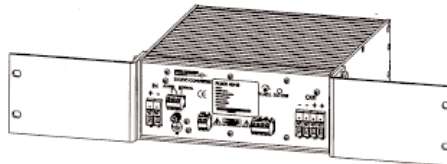


PU300/500 wallmounted. Brackets PL86-1 (standard)



PU300/500 wallmounted, L216-1 (optional)

PU300/500 wallmounted. Brackets PL60-1 (standard)



PU300/500 19" rack.

1) Brackets L86-3 (optional)

2) 19" rack mounting set (optional)

3) Standard brackets + L480-1 (optional)