

PU600-PU1000

480-1000 WATTS DC/DC SINGLE

Features

- Convection cooled
- High efficiency
- Current sharing
- Overvoltage protection OVP
- Over/under voltage alarm
- Operating temperature range -25°C to 55°C
- Reverse input voltage protection



Specifications

INPUT

Input voltages	PU600: 20-60Vdc(B), 50-150Vdc(C), 90-270Vdc(D). PU1000: 18-32Vdc(24), 38-60Vdc(48), 50-90Vdc(72), 88-150Vdc(110), 175-300Vdc(220).
Max accepted input ripple 50–400Hz	2% of nom. voltage
Input power at no load, max	15W
Reverse input voltage protection	Yes
Input code B, 24, 48, 72	Parallel diode
Input code C, D, 110, 220	Series diode
Inrush current limit	Input Code B, 24, 48, 72 No Input Code C, D, 110, 220 Yes, <6 x Inom.
Isolation	
Input/case	Input Code B, 24, 48, 72 2kVDC
Input/output	Input Code C, D, 110, 220 2.5kVDC
Output/case	<75Vdc 2KVdc, >75Vdc 4KVdc

OUTPUT

Output Voltages	12–110V
Source regulation	0.1%
Load regulation (0-100% load) master	0.3%
Transient recovery time for 10%/90%	<3mS. Load step, to within 3% of nominal output voltage
Typ output ripple (60kHz) mV pk-pk2	30mV
Input ripple attenuation on Output (50–400Hz)	150:1
Temperature coefficient	0.02% per °C
Output adjustment range with 15 Turn potentiometer	95%–110%
Current limit, rectangular	105%
Remote sense	Yes
Soft start	Yes.
Startup time	1 Sec
Holdup time	2-25mS. Contact Powerbox

OPERATING

Design topology	Push-Pull
Switching frequency	30kHz
Efficiency	85%–92%
Overvoltage protection	Yes, 115% of nominal voltage.
Reverse Input Voltage Protection	Yes. input code B, 24, 48 with a parallel diode, other input use a input series thyristor.

STANDARDS AND APPROVALS

Safety standards	IEC60950, Low Voltage Directive.
C-Tick	AS/NZS CISPR11 Group 1, Class A
EMC standards	EN55011-B, EN55022-B, IEC61000-6-2, IEC61000-4-2, -3, -4, -5, -6, -8, -10, EN50155 Figure 4.

ENVIRONMENTAL

Operating Temperate	-25°C to +55°C at 100% load
Conduction Cooling	With derating, +70°C
Storage Temperature Range	-40°C to +85°C

MECHANICAL

Dimensions (HxWxD)	86x420x337mm
Weight	10kg
PU600/1000	Supplied with L89-1 mounting brackets
Mounting brackets	Please consult Powerbox for mounting options

PU600-PU1000

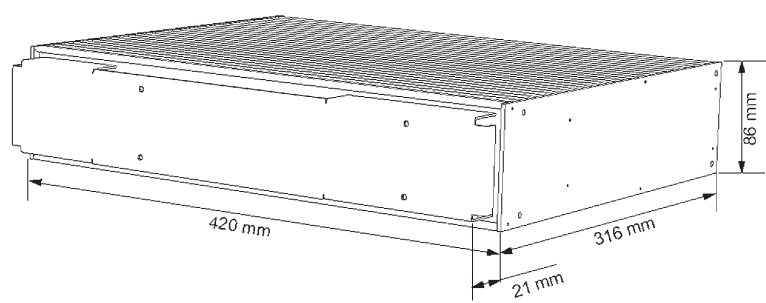
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Selection Table

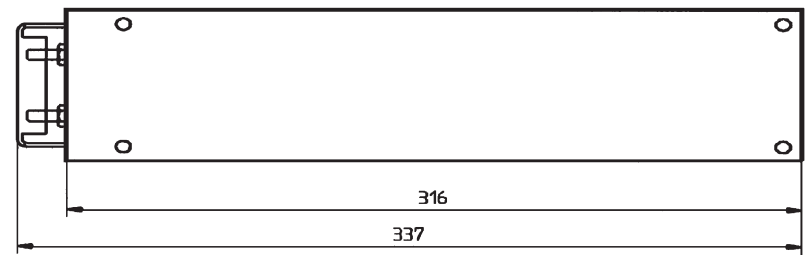
MODEL NUMBER	INPUT	OUTPUT	OUTPUT POWER	MODEL NUMBER	INPUT	OUTPUT	OUTPUT POWER	MODEL NUMBER	INPUT	OUTPUT	OUTPUT POWER
PU600B12	20-60V	12V 40A	480W	PU600D48	90-270V	48V 12.5A	600W	PU1000 72/85	50-90V	85V 11.8A	1000W
PU600B13.8	20-60V	13.8V 40A	552W	PU1000 24/24	18-32V	24V 33.4A	800W	PU1000 72/110	50-90V	110V 9.09A	1000W
PU600B15	20-60V	15V 40A	600W	PU1000 24/28	18-32V	28V 28.6A	800W	PU1000 110/24	88-150V	24V 41.7A	1000W
PU600B24	20-60V	24V 25A	600W	PU1000 24/48	18-32V	48V 16.7A	800W	PU1000 110/28	88-150V	28V 35.7A	1000W
PU600B48	20-60V	48V 12.5A	600W	PU1000 24/60	18-32V	60V 13.4A	800W	PU1000 110/48	88-150V	48V 20.9A	1000W
PU600C12	50-150V	12V 40A	480W	PU1000 24/110	18-32V	110V 7.28A	800W	PU1000 110/60	88-150V	60V 16.7A	1000W
PU600C13.8	50-150V	13.8V 40A	552W	PU1000 48/24	38-60V	24V 41.7A	1000W	PU1000 110/85	88-150V	85V 11.8A	1000W
PU600C15	50-150V	15V 40A	600W	PU1000 48/48	38-60V	48V 20.9A	1000W	PU1000 110/110	88-150V	110V 9.09A	1000W
PU600C24	50-150V	24V 25A	600W	PU1000 48/60	38-60V	60V 16.7A	1000W	PU1000 220/24	175-300V	24V 41.7A	1000W
PU600C48	50-150V	48V 12.5A	600W	PU1000 48/85	38-60V	85V 11.8A	1000W	PU1000 220/28	175-300V	28V 35.7A	1000W
PU600D12	90-270V	12V 40A	480W	PU1000 48/110	38-60V	110V 9.09A	1000W	PU1000 220/48	175-300V	48V 20.9A	1000W
PU600D13.8	90-270V	13.8V 40A	552W	PU1000 72/24	50-90V	24V 41.7A	1000W	PU1000 220/60	175-300V	60V 16.7A	1000W
PU600D15	90-270V	15V 40A	600W	PU1000 72/48	50-90V	48V 20.9A	1000W	PU1000 220/85	175-300V	85V 11.8A	1000W
PU600D24	90-270V	24V 25A	600W	PU1000 72/60	50-90V	60V 16.7A	1000W	PU1000 220/110	175-300V	110V 9.09A	1000W

Technical Illustrations

PU6000 - Dimensions



PU1000 - Side View



PU1000 - Front View

