

B7 SERIES

PB42WG-XXXXZ2:1 1.5 KVDC ISOLATED 10 W REGULATED DUAL OUTPUT

Available Inputs: 12, 24 and 48 VDC Wide Input 2:1

Available Outputs: (+/-) 3.3, 5, 9, 12 and 15 VDC

Electrical Specifications

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

Input Specifications

Voltage range 9 -18 VDC (12 VDC), 18 - 36 VDC (24 VDC), 36 - 72 VDC (48 VDC)
 Filter Pi Filter

Isolation Specifications

Rated voltage 1500 Vdc
 Resistance 10^9 Ohm
 Capacitance 350 pF typ.

Output Specifications

Voltage accuracy +/- 1 % typ. +/-2% max.
 Ripple and noise (at 20 MHz BW) 50 mV p-p typ. , 100/120 mV p-p (12/15 VDC Output)
 Short circuit protection Continuous , restart automatic
 Line voltage regulation +/- 0,5 % max.
 Load voltage regulation +/- 2 % max.
 Temperature coefficient +/- 0,02 % / °C

General Specifications

Efficiency 79 % to 84 %
 Switching frequency 250 KHz, typ.

Environmental Specifications

Operating temperature (ambient) -25°C to +71°C
 Storage temperature - 55 °C to + 105 °C

Examples of Partnumbers/Modelcode

PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
PB42WG-123R3Z2:1	9 –18	20	870	+/- 3.3	+/- 1250	79
PB42WG-1205Z2:1	9 –18	25	1042	+/- 5	+/- 1000	80
PB42WG-1209Z2:1	9 –18	20	1006	+/- 9	+/- 550	82
PB42WG-1212Z2:1	9 –18	20	1000	+/- 12	+/- 415	83
PB42WG-1215Z2:1	9 –18	25	982	+/- 15	+/- 330	84
PB42WG-243R3Z2:1	18 – 36	12	441	+/- 3.3	+/- 1250	78
PB42WG-2405Z2:1	18 – 36	10	515	+/- 5	+/- 1000	81
PB42WG-2409Z2:1	18 – 36	10	503	+/- 9	+/- 550	82
PB42WG-2412Z2:1	18 – 36	10	506	+/- 12	+/- 415	82
PB42WG-2415Z2:1	18 – 36	10	497	+/- 15	+/- 330	83
PB42WG-483R3Z2:1	36 – 72	12	223	+/- 3.3	+/- 1250	77
PB42WG-4805Z2:1	36 – 72	10	254	+/- 5	+/- 1000	82
PB42WG-4809Z2:1	36 – 72	10	248	+/- 9	+/- 550	83
PB42WG-4812Z2:1	36 – 72	10	250	+/- 12	+/- 415	83
PB42WG-4815Z2:1	36 - 72	10	246	+/- 15	+/- 330	84

Remark:

1. Input Current is measured at Nominal Input Voltage, 9-18 is @ 12V, 18-36 is @ 24V, 36-72 is @ 48V

Dimensions

