

B7 SERIES
PB42WG-XXXXE2:1 1.5 KVDC ISOLATED 10 W REGULATED SINGLE 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	+/- 0,5 % 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-123R3E2:1	9 –18	20	870	3.3	2500	79
PB42WG-1205E2:1	9 –18	25	1042	5	2000	80
PB42WG-1209E2:1	9 –18	20	1006	9	1100	82
PB42WG-12122:1	9 –18	20	1000	12	830	83
PB42WG-1215E2:1	9 –18	25	982	15	660	84
PB42WG-243R3E2:1	18 – 36	12	441	3.3	2500	78
PB42WG-2405E2:1	18 – 36	10	515	5	2000	81
PB42WG-2409E2:1	18 – 36	10	503	9	1100	82
PB42WG-2412E2:1	18 – 36	10	506	12	830	82
PB42WG-2415E2:1	18 – 36	10	497	15	660	83
PB42WG-483R3E2:1	36 – 72	12	223	3.3	2500	77
PB42WG-4805E2:1	36 – 72	10	254	5	2000	82
PB42WG-4809E2:1	36 – 72	10	248	9	1100	83
PB42WG-4812E2:1	36 – 72	10	250	12	830	83
PB42WG-4815E2:1	36 - 72	10	246	15	660	84

Remark:

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

