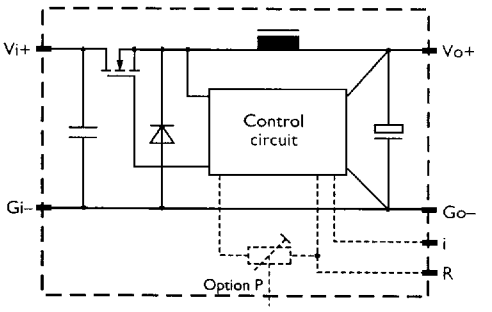
PSR, PSB, NSR

PSR, PSB, PSC series

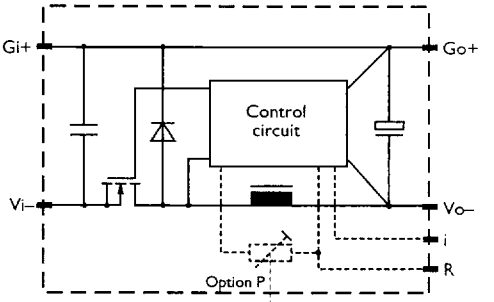
- Output power 10...288 W
- Extremely wide input voltage range
- Power MOS-FET technology
- Large number of options providing unlimited applications
- Low input to output differential voltage
- Direct replacement of linear regulators
- Adjustable output voltage
- Input undervoltage lock-out
- Parallel operation mode as per data sheet
- Continuously open- and short-circuit proof
- External input circuitry required for certain applications (see data sheet)
- 19" cassettes see following pages



Approved by:

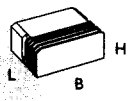
NSR series

- Similar features to the PSR series; but with negative going input and output relative to ground



PSR/PSB/PSC	System ground = negative polarity	Vi+	Gi–	Vo+	Go–
NSR	System ground = positive polarity	Vi–	Gi+	Vo–	Go+

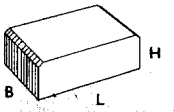
A01



L 50 • B 70 • H 25 mm
L 2.0 • B 2.8 • H 1.0"

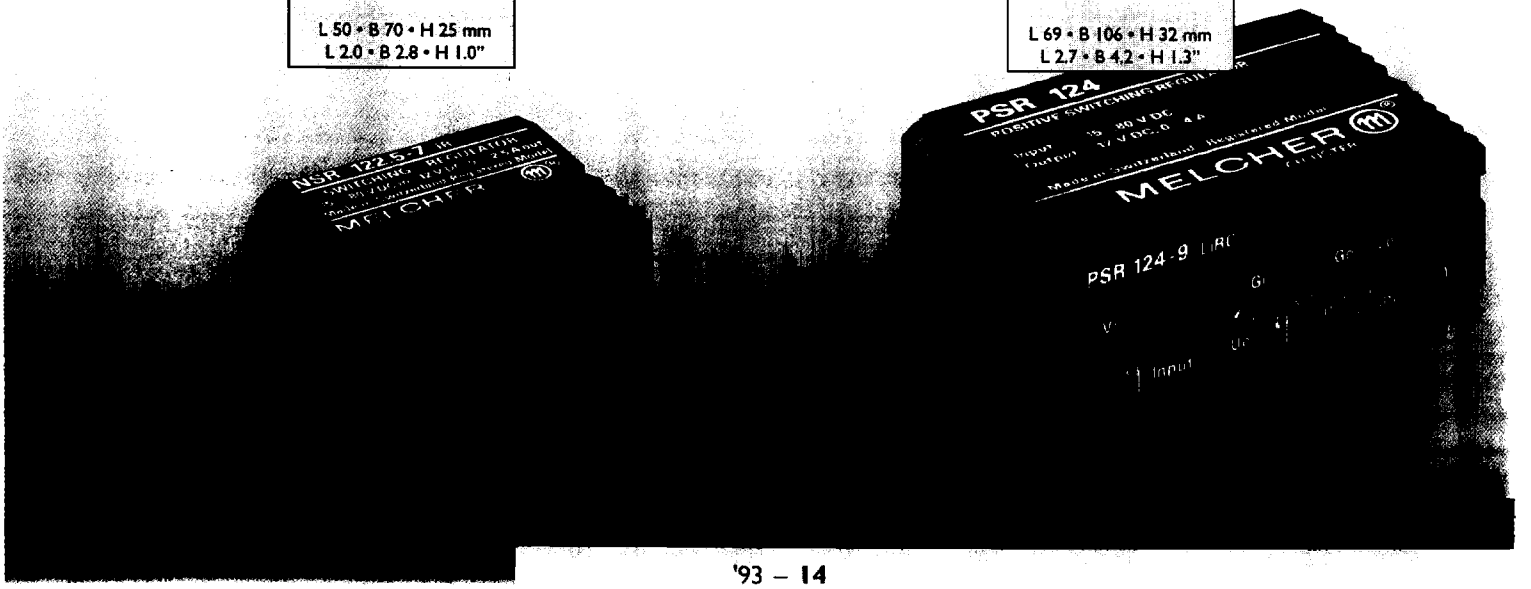
Accessories
310
320
410

B02



L 69 • B 106 • H 32 mm
L 2.7 • B 4.2 • H 1.3"

Accessories
320
410



Switching mode regulators without isolation

Options

- [9] Extended operational ambient temperature range T_A: –40...71°C (–40...160°F)
- [L] Input filter for the reduction of RFI noise
- [i] Inhibit input for on/off control of output voltage with a logic signal
- [P] Potentiometer for fine adjustment of output voltage V_o (±8% of $V_{o\,nom}$)
- [R] Output voltage control input: PSB/PSC/PSR: 0...1.08 • $V_{o\,nom}$, NSR: 0.65...1.08 • $V_{o\,nom}$
- [C] Thyristor crowbar for output overvoltage protection
- [D] Adjustable input voltage monitor; save data signal
- [Y] Case A01: Soldering pins for pcb-mounting-holes of Ø 1.4 mm

PSR, PSB, PSC, NSR series

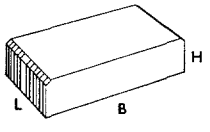
Output $V_{o\,nom}$ V DC	Output $I_{o\,nom}$ A	Input V_i V DC	Eff. η %	Case	Type Basic version T_A: -25...71°C		Options
5.0	2.0	8...80		A01	PSR 52-7		i,Y
5.0	3.0	8...80	77		PSR 53-7	NSR 53-7	
5.0	4.0	7...38	82		PSR 54-7	NSR 54-7	
5.0	5.0	7...35	82		PSA 55-7	NSA 55-7 [1]	
12.0	2.5	15...80	86	A01	PSR 122.5-7	NSR 122.5-7	9, i, P, R, Y
15.0	2.5	19...80	88		PSR 152.5-7	NSR 152.5-7	
24.0	2.0	29...80	91		PSR 242-7	NSR 242-7	
36.0	2.0	42...80	94		PSR 362-7	NSR 362-7	
5.1	6.0	8...80	79		PSB 5A6-7iR		
5.1	7.0	7...40	81		PSB 5A7-7iR		
12.0	5.0	15...80	89	B02	PSB 125-7iR		9, L, P, C
15.0	5.0	19...80	89		PSB 155-7iR		
24.0	5.0	29...80	94		PSB 245-7iR		
36.0	5.0	42...80	94		PSB 365-7iR		
5.1	4.0	15...144	77		PSB 5A4-7iR		
12.0	3.0 [2]	18...144	89		PSB 123-7iR		
15.0	3.0 [2]	22...144	89	B02	PSB 153-7iR		9, L, P, C
24.0	3.0 [2]	31...144	91		PSB 243-7iR		
36.0	3.0 [2]	44...144	94		PSB 363-7iR		
48.0	3.0 [2]	58...144	95		PSB 483-7iR [3]		
5.0	10.0	8...80	76			NSR 510-7	
5.0	12.0	7...38	81			NSR 512-7	PSC types:
5.1	10.0	8...80	79		PSC 5A10-7iR		9, L, P, C, D
5.1	12.0	7...40	81	C03	PSC 5A12-7iR		
12.0	8.0	15...80	89		PSC 128-7iR	NSR 128-7	
15.0	8.0	19...80	89		PSC 158-7iR	NSR 158-7	NSR types:
24.0	8.0	29...80	94		PSC 248-7iR	NSR 248-7	9, L, i, R, P, C
36.0	8.0	42...80	94		PSC 368-7iR	NSR 368-7	
5.1	7.0	15...144	77		PSC 5A7-7iR		
12.0	6.0	18...144	89		PSC 126-7iR		
15.0	6.0	22..144	89	C03	PSC 156-7iR		9, L, P, C, D
24.0	6.0	31...144	91		PSC 246-7iR		
36.0	6.0	44...144	94		PSC 366-7iR		
48.0	6.0	58...144	96		PSC 486-7iR [3]		

[1] T_A: –25...60°C (–13...140°F)

[2] At $V_i \leq 80$ V: $I_{o\,nom} = 4$ A

[3] Option C not available with 48 V output

C03



L 88 • B 151 • H 32 mm
L 3.5 • B 5.9 • H 1.3"

Accessories

320
410

MELCHER
ISO 9001 certified