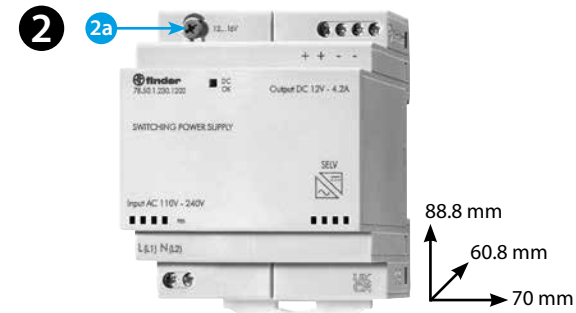
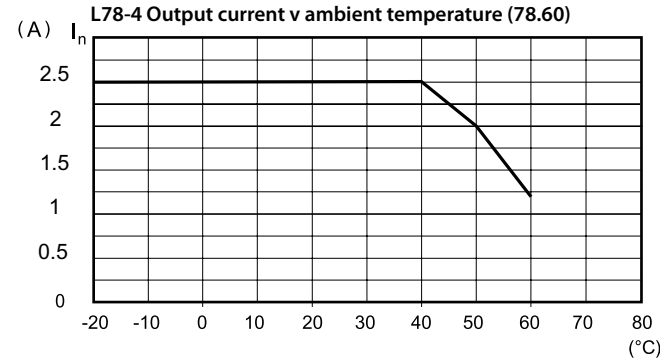
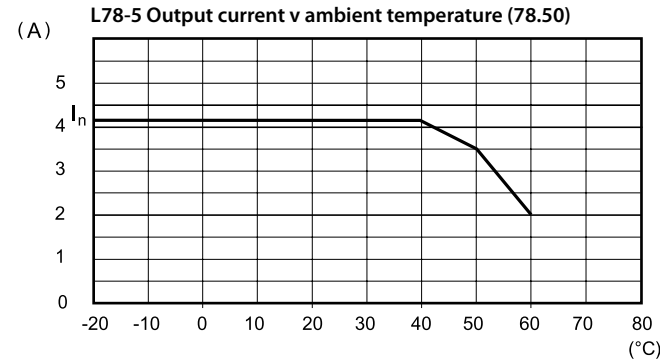
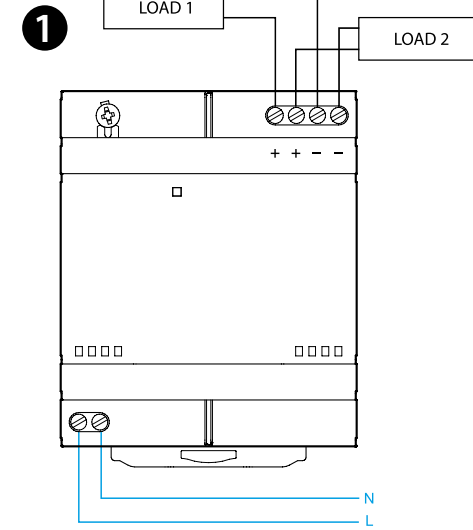


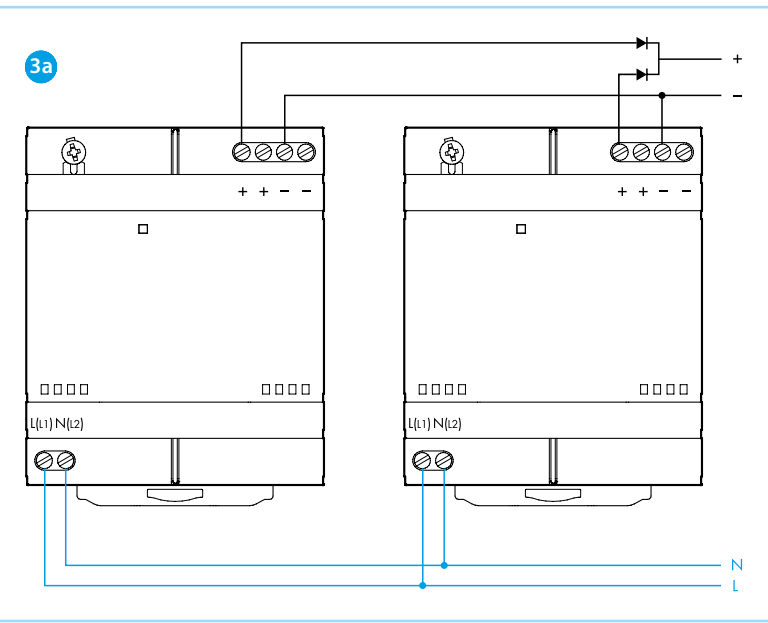


78.50/60

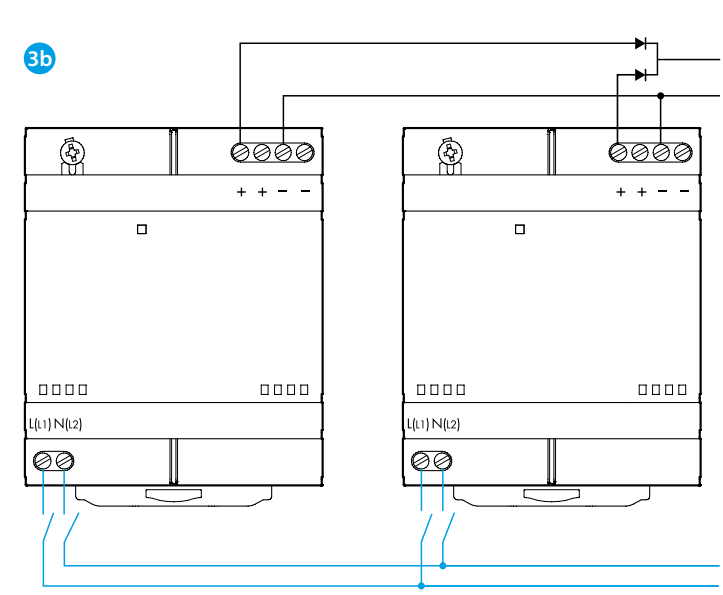
<b>IN</b>	78.xx.1.230.xxxx $U_N$ 110...240 V AC - 50/60 Hz - ( $U_{min}/max \pm 10\% U_N$ ) $I_{MAX}$ 1.0 A (78.50) - $I_{MAX}$ 1.2 A (78.60) $U_N$ 220 V DC* $U_{min} - U_{max}$ (140-370)V DC
<b>OUT SELV (EN 60950)</b>	78.50.1.230.1202 - [IN (100...265)V AC - (+40)°C] 4.2 A (max 8.4 A - 5 ms) 12 V DC, 50 W 78.60.1.230.2402 - [IN (100...265)V AC - (+40)°C] 2.5 A (max 5 A - 5 ms) 24 V DC, 60 W (78.60)
	-20...+60 °C
IP20* - DIN rail mounting	
Overvoltage category II - Pollution Degree 2	



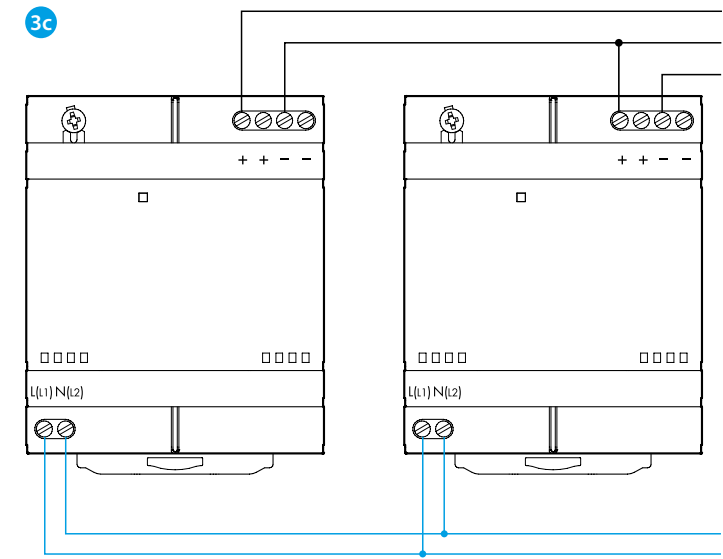
3



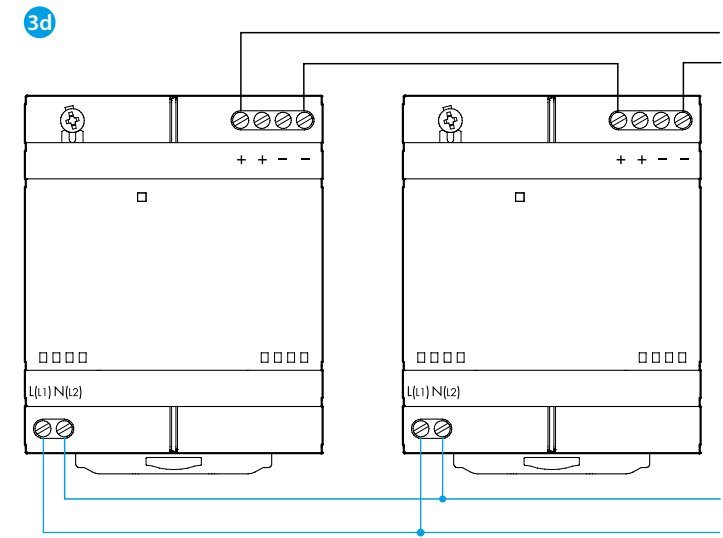
3b



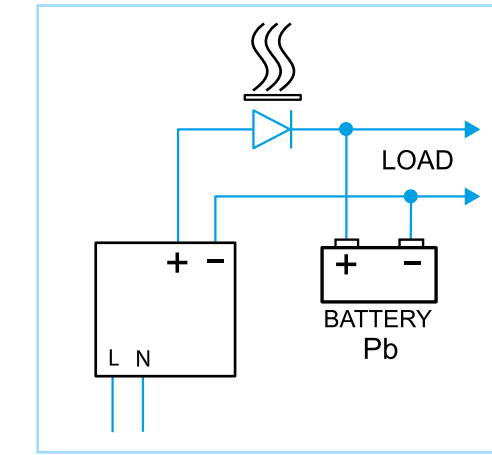
3c



3d



4\*



5

78	U	LED
OK	✓	
Sh	✓	
ThL	✓	OFF

	0.5 Nm
	7mm
	7mm
mm <sup>2</sup> : 1x2.5 max - 1x0.5 min	
AWG: 1x14 max - 1x20 min	
Cu / CCA / Al-Cu / Cu-Al 85°C	

\*NOT UL EVALUATED

# ENGLISH

## SWITCH MODE POWER SUPPLIES

- CONNECTIONS
- FRONT VIEW  
2a Output voltage regulator (78.50/60)
- WIRING DIAGRAM EXAMPLES  
3a Automatic redundancy ( $I \leq 2 \times I_N$ ) (78.50/60)  
3b Manual redundancy ( $I \leq I_N$ )  
3c Dual connection-for a Bipolar supply (+24/-24; +12/-12)  
3d Series connection-for increased output voltage

### NOTE

- The output voltage regulation has to be done preferably with a load connected. The voltage regulation must be done slowly (78.50/60)  
 - 78.50:  $V_{OUT}$  12...15 DC  
 - 78.60:  $V_{OUT}$  24...28 DC  
 - 78.50: efficiency (@230 V AC) 90%  
 - 78.60: efficiency (@230 V AC) 91%  
 - The product can be used without particular wiring requirements, but, to ensure compliance with EN 61204-3: 2019, the length of the connection cables between the output terminals and the load must not exceed 30 m

### Fold-back mode (78.50/60)

If connected as wiring diagram 3a, two parallel connected power supplies can deliver up to:  
 110 W / 8.4 A (2x78.50)  
 125 W / 5 A (2x78.60)  
 In case of moderate overload, the fold-back characteristic reduces the nominal output voltage without the power supply entering its full protection mode.  
 When the overload is removed the power supply returns to its normal operating mode.

- The fold-back characteristic allows the 78.50 and the 78.60 to be used as a battery charger, in particular for charging lead batteries in the range 7...24 Ah.  
 It is suggested to connect a diode between the power supply Output + (diode Anode) and to the Battery + (diode Cathode) - if not already integral with the battery.

- LED  
 U AC/DC Supply  
 Sh Short circuit  
 ThL Thermal limit

### NOTE

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.