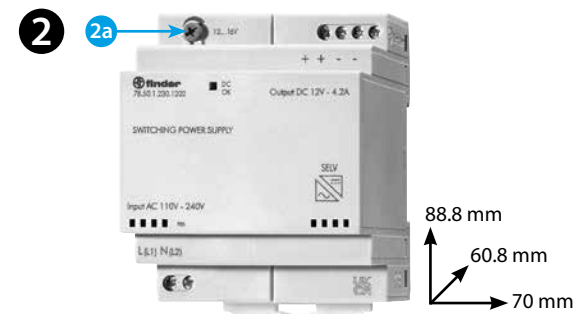
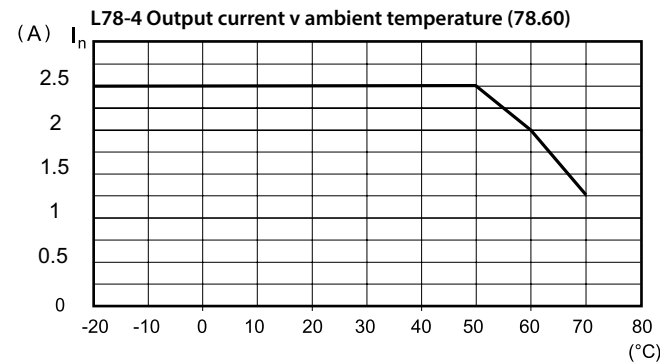
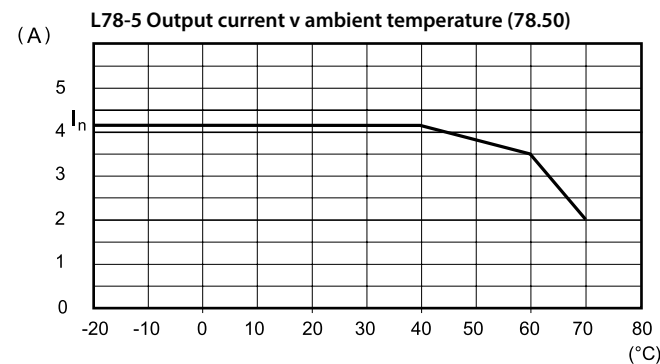
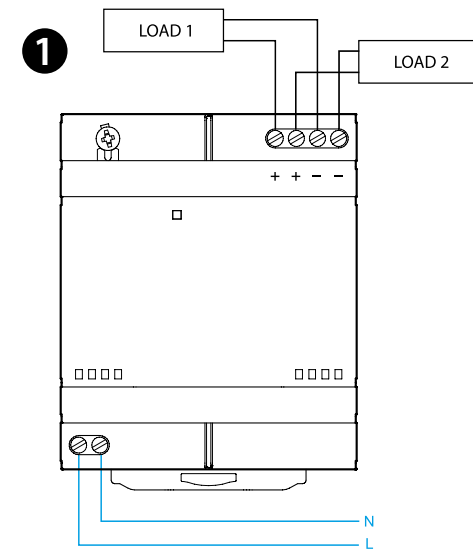


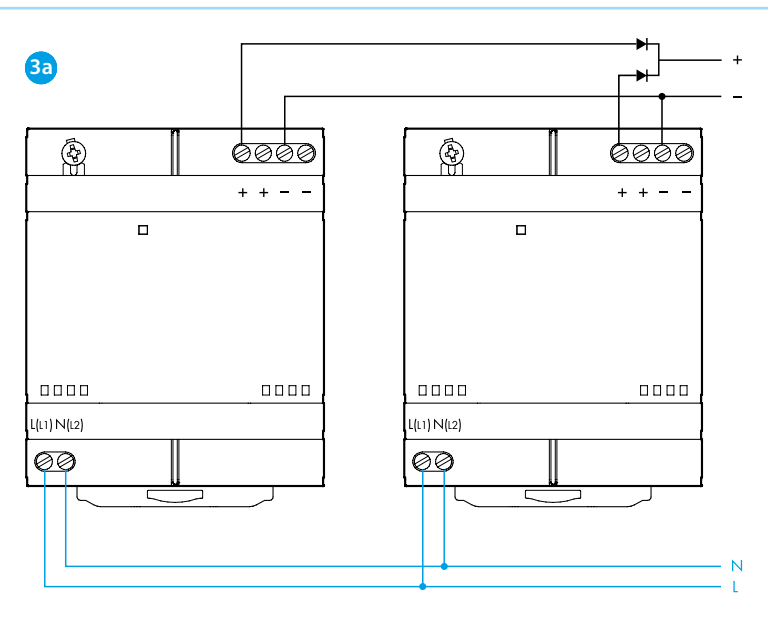


78.50/60

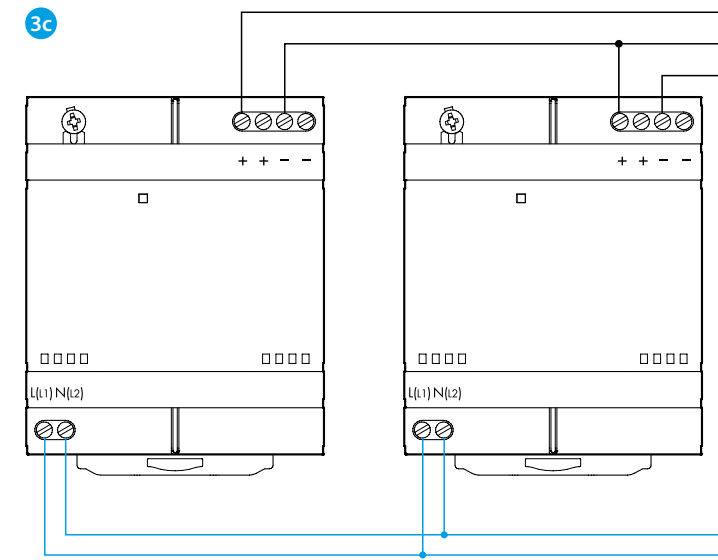
<b>IN</b>	78.xx.1.230.xxxx $U_N$ 110...240 V AC - 50/60 Hz - ( $U_{min}/max \pm 10\% U_N$ ) $I_{MAX}$ 1.0 A (78.50) - $I_{MAX}$ 1.2 A (78.60) $U_N$ 220 V DC* $U_{min} - U_{max}$ (140-370)V DC
<b>OUT SELV (EN 60950)</b>	78.50.1.230.1202 - [IN (100...265)V AC - (+40)°C] 4.2 A (max 8.4 A - 5 ms) 12 V DC, 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...+70 °C
IP20* - DIN rail mounting	
Overvoltage category II - Pollution Degree 2	



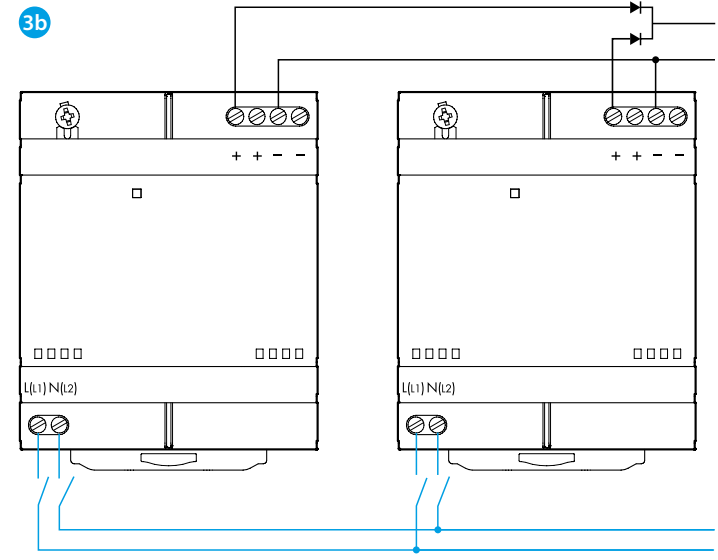
3



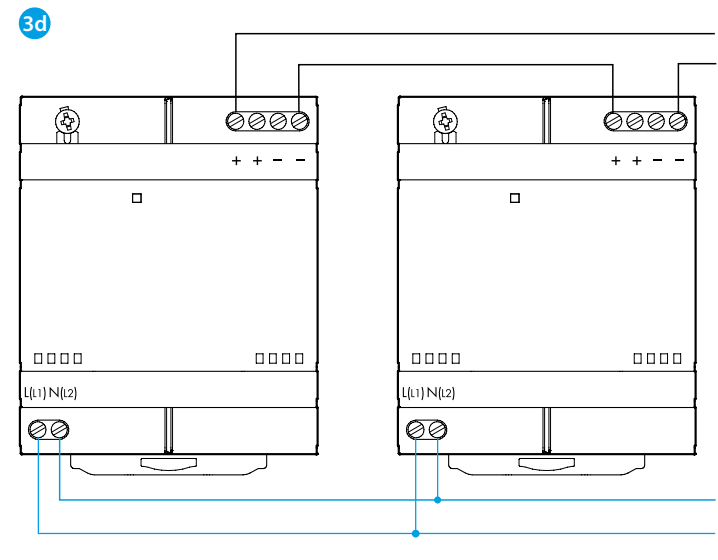
3c



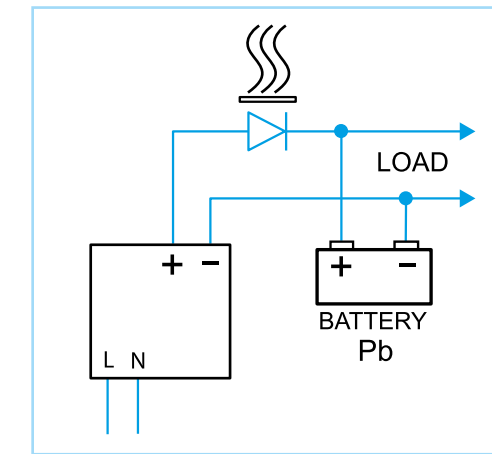
3b



3d



4\*



5

78	U	LED
OK	✓	
Sh	✓	
ThL	✓	OFF

	8mm
	8mm
	0.5 Nm
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.