

## Power Supply, type 6781-12

- Power supply for direct current networks.
- For stationary mounting or for mounting in driver cabins or on the trailer of tank trucks.



### Application

Type 6781-12 is a power supply device for direct current network systems. It filters out interference signals and voltage peaks, bridges voltage drops and makes possible a safe supply for series connected systems.

The device is suitable for input voltages of 24 V and for output currents up to 8 A (temperature influence, see diagram 1). The power supply may be mounted stationary or inside the driver cabin or, with A3 and milk tank trucks, it may be mounted on the trailer.

The device is EMV-tested and CE approved.

### Function

An electronic switch-off for temperature rise and automatic switch-off in case of over voltage guarantees a high operational safety. An input filter serves for bridging quick transients, as they are produced by switching inductive consumers. Voltage drops of the input voltage, which may arise when starting a motor or when connecting other consumers with high energy, are bridged by an additional voltage transformer (optional).

For supporting the service, it is equipped with a diagnosis plug for the P-NET-Fieldbus.

Optionally the power supply may be provided with a separate output with 24 V-limited voltage.

- Automatic switch-off in case of overvoltage
- Input filter for bridging quick transients
- Service-support by diagnoses plug for the P-NET Fieldbus
- Optionally separate output with voltage limitation to 24 V
- Optional bridging of short-time voltage drops

Technical Data	
<b>Mechanical data</b>	
Housing	Aluminium die-cast
Weight	2,5 kg
Dimensions	160 x 160 x 90 mm
Protective system	IP 65 according to DIN 40050
Holes for mounting	4 holes $\varnothing$ 7 mm for M6, distance horizontal 140 mm, vertical 180 mm
<b>Ambient conditions</b>	
Storage temperature	- 40 ... + 85 °C
Operating temperature	- 20 ... + 70 °C (Climate class JSD according to DIN 40040)
<b>Electronical data</b> <span style="float: right;">* with nomial conditions 22 ± 2 °C</span>	
Connection	Cable inlet: 6 x PG9, Line diameter: max. 1,5 mm <sup>2</sup>
<b>Performance data with input buffer</b>	
Bridging of voltage drops of the input voltage $U_{in}$ :	$U_{in} = 12 \dots 25 \text{ V} \rightarrow U_{out} = 24 \text{ V} \pm 5 \%$ *, Output current: max. 1,25 A $U_{in} = 25 \dots 34 \text{ V} \rightarrow U_{out} = U_{in} - 1 \text{ V}$ *, Output current: max. 6,3 A
Overvoltage switch-off at $U_{in} > \text{DC } 34 \text{ V}$ * (see diagram 2)	pulse load : max. 16 A/10 ms Fuse 1: Output fuse: 6,3 A medium slow Fuse 2: For common mass feedback : 8 A slow
<b>Separate output with 24V voltage limitation</b>	
<b>Order designations</b>	
<b>Designation</b>	<b>Order number</b>
Power Supply, type 6781-12	U899 10 678112 0 11

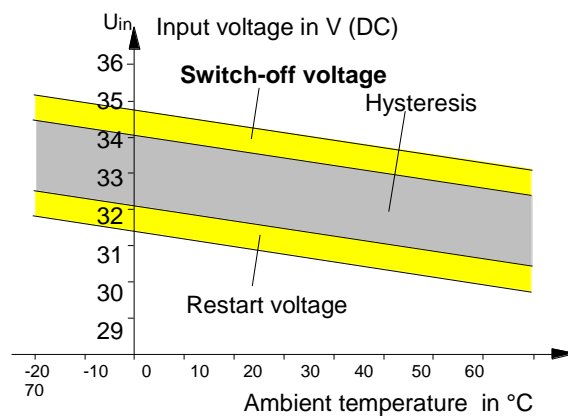
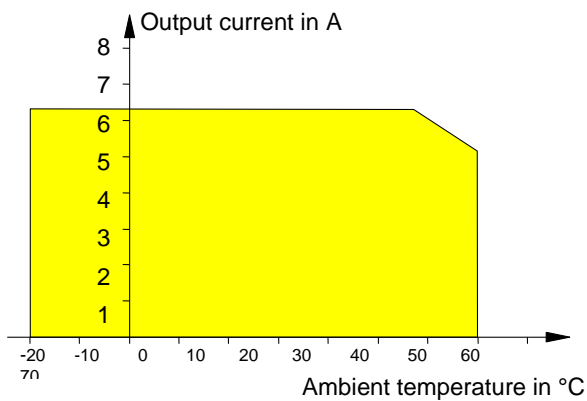


Diagram 1: Performance diagram  
(Input voltage  $U_{in} \geq 25 \text{ V}$ )

Diagram 2: Automatic switch-off for overvoltage

## Mounting

