



### DC-UPS

Q33G1M03 / Q33G1M04

## 1 Short description

The battery buffered DC power supply of the series **AKKUTEK** is working according the stand-by parallel mode and ensures in connection with a lead-acid accumulator a safe continuous DC power supply in case of mains failure.

The power supply has the following features:

- Primary switched power supply with I/U-charging characteristics
- Battery management by micro-controller
- Battery voltage tracking of the charging voltage by external sensor module (optional)

## 2 Technical Data

Input	
Input voltage	230 V AC $\pm 15\%$ 196...265 V AC)
Frequency	47...63 Hz
Input current	0,7 A @ 230 V AC
Inrush current	$\leq 30$ A/2 ms
Nominal input power	86 W @ (U <sub>e</sub> = 230 V AC, U <sub>a</sub> = 26,8 V DC, I <sub>a</sub> = 2,8 A)
Output	
Nominal output voltage	24 V DC
Output voltage (without temperature tracking)	19,8...26,8 V DC $\pm 0,4\%$
Output voltage (with temperature tracking)	19,8...27,8 V DC $\pm 0,4\%$
Final charging voltage (with/without temperature tracking)	26,8 V DC $\pm 0,4\%$ / 26,8...27,8 V DC $\pm 0,4\%$
Load shedding	19,8 V DC $\pm 0,4\%$
Nominal output current	2,8 A
Self consumption current (in back-up operation)	70 mA
Max power loss "worst case"	12 W @ (U <sub>e</sub> = 230 V AC, U <sub>a</sub> = 26,8 V DC, I <sub>a</sub> = 2,8 A)
Efficiency	86,3 % @ (U <sub>e</sub> = 230 V AC, U <sub>a</sub> = 26,8 V DC, I <sub>a</sub> = 2,8 A)
Charging characteristics	IU-characteristics DIN 41773-1
Fusing	
Fusing battery circuit (external)	3 A (T), 250 V
Fusing output (external)	3 A (T), 250 V
Pre-fusing	5 A (T), 250 V
In General	
Protective system housing	IP20
Overvoltage category	II
Degree of pollution	2

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Reg.-Nr. 2750

# Technical Datasheet

## AKKUTEK 19-2403



**J. Schneider**  
Elektrotechnik

Battery type	Lead accumulator*
dimensions (H x W x D) standard unit	19» x 3HE x 84TE (482,6 x 132,5 x 244 mm)
weight	
with 7,2 Ah battery	7,0 kg
with 12 Ah battery	9,6 kg
Operational temperature	0 °C ... +45 °C
Operational temperature (UL tested)	+10 °C ... +50 °C
Storage temperature	0 °C ... +50 °C
Relative humidity	≤95 % non-condensing
Max. height above sea level (without power reduction)	2000 m

### 2.1 Norms and regulations

Power HF transformer to ensure safe separation of primary and secondary	EN 61558-2-16, fullfills SELV / PELV
Optocoupler to ensure safe isolation primary/secondary	EN 60747-5-1, fullfills SELV / PELV
Ermitted interference EN 61000-6-4	EN 61000-3-2 and EN 61000-3-3 class A EN 55011 class B
Interference immunity: EN 61000-6-2	EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11 (voltage drops)
Total unit	EN 62368-1 EN 61010-1 / EN 61010-201