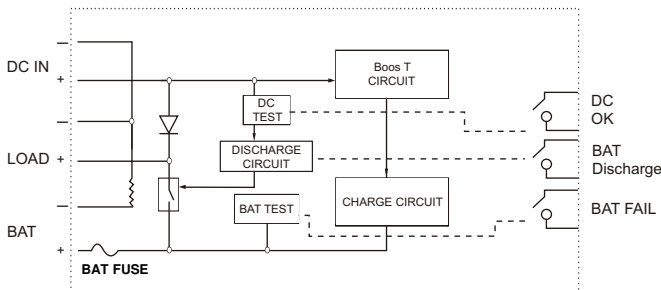


wipos UPS 24-30

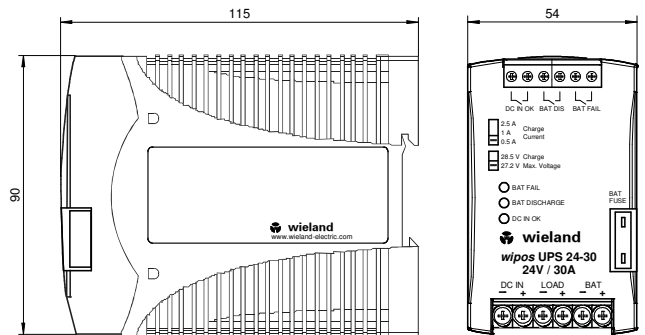


wipos UPS 24-30 UPS Module 24 V DC, max. 30 A 81.000.6220.0

- UPS Module
- Input: 22.5 - 28 V DC
- Rated output current 30 A
- Built-in battery test function
- Undervoltage, overcharge and polarity protection for battery
- Status indicator LEDs and relay contact signal outputs
- Vertical mount



Block diagram



Dimensional diagram

Technical Data

wipos UPS 24-30		Order-no. 81.000.6220.0
Input ('DC IN +/-')		
Rated input voltage	[V _{IN}]	24 V DC
Absolute voltage range		22.5 ... 28 V DC
Input current max.	[I _{IN}]	35 A
No-load current max.		0.2 A
Input current when charging, max.		35 A
Output ('LOAD +/-')		
Rated output voltage	[V _{OUT}]	24 V DC
Output voltage range		22.0 ... 27.5 V DC
Rated output current	[I _{OUT}]	30 A max.
Ripple and noise		100 mV max.
Output voltage (battery operation)		18.7 ... 28.0 V
Output current (battery operation)		30 A max.
Battery ('BAT +/-')		
Battery type		Lead-acid or lead-gel type
Voltage range		19.2 ... 28.5 V DC
Switching threshold		V _{IN} < 22.5 V
Reverse voltage		max. 28.5 V
Output fuse		40 A fuse, internal
Recommended battery type		4/7/12 Ah
Selection of charge current	2 - 5 Ah	0.5 A typ.
	5 - 10 Ah	1 A typ.
	> 10 Ah	2.5 A typ.
Selection of charge voltage		
- nominal charge voltage		26 - 27.2 V
- fast charge voltage		26.5 - 28.5 V
Discharge current		max. 30 A

wipos UPS 24-30

Technical Data

wipos UPS 24-30		Order-no. 81.000.6220.0	
Mounting on	DIN raid 35 mm, acc. EN 60715		
IP rating	IP20		
Operating temperature range	[T _U]	-40 ... +71 °C (UL max. 50 °C) (note derating, see Fig. 1 Derating)	
Storage temperature	[T _{STG}]	-40 ... +85 °C	
Relative humidity	20 - 95 % RH, no condensation		
Cooling	free convection		
MTBF	360,000 h		
Pollution degree	2		
Dimensions (W x H x D)	54 x 90 x 115 mm		
Weight	ca. 370 g		
Housing material	Plastic (Polycarbonate)		
Terminals '+' / '-'			
Connector cross section (min.)	solid	0.6 mm ²	(AWG18)
	stranded	0.6 mm ²	(AWG18)
Connector cross section (max.)	solid	6.0 mm ²	(AWG8)
	stranded	6.0 mm ²	(AWG8)
Strip length	10 - 11 mm		
Torque	0.6 Nm max. (5.5 lbf-in)		
Terminals 'DC IN OK', 'BAT DIS', 'BAT FAIL'			
Connector cross section (min.)	solid	0.2 mm ²	(AWG24)
	stranded	0.2 mm ²	(AWG24)
Connector cross section (max.)	solid	2.5 mm ²	(AWG12)
	stranded	2.5 mm ²	(AWG12)
Strip length	7 - 8 mm		
Torque	0.6 Nm max. (5.0 lbf-in)		
Standards and Approvals			
cULus	UL 508 Listed, UL60950-1 Recognized		
CE	EN61000-6-3, EN55022 class B, EN61000-6-2, EN55024, EN61204-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-6, EN61000-4-8		
Terminal connections			
DC IN + / -	see Fig. 2 Application		
LOAD + / -	Input voltage (DC IN)		
BAT + / -	Load voltage (LOAD)		
	Battery (BAT)		
Signal outputs (Relay)			
DC IN OK (Relay output)	Closed if 22.5 V < V _{IN} < 28 V		
BAT DIS (Relay output)	Closed during battery discharge		
BAT FAIL (Relay output)	Closed if battery test failed		
LED displays	BAT FAIL (LED red)	BAT DIS (LED yellow)	DC IN OK (LED green)
Battery disconnected or fuse blown	●		●
Inverse polarity of battery, or overcharge protection active	●		●
Battery charging			●
V _{IN} < 22.5 V, Battery discharging		●	
V _{IN} < 22.5 V, battery discharge voltage < 20.5 V	●	●	
V _{IN} < 22.5 V, V _{BAT} ≤ 19.2 V			
DC IN OK, 19.2 V ≤ V _{BAT} ≤ 20.5 V	●		●

