

150 W - 12/24 V

DC-UPS, AC to DC uninterruptable power systems for critical DC loads.

All-in-One: Power supply + Battery charger + Back-up functions, all packaged in one box.

- Selectable Output Voltage, 12 Vdc or 24 Vdc
- Load-first, Dynamic Load/Battery power sharing
- Adjustable maximum battery charging current
- Suitable for backup of high inrush current DC loads
- Universal charging output, selectable Battery Type
- SBS Smart Temperature Compensation probe (opt.)
- Manual Battery start-up button with no mains
- Battery life test, automatic or via manual button
- Extensive BATTSAFE battery management firmware
- Full set of protection and monitoring functions
- Local monitoring and diagnostics on LEDs
- Remote alarms via 2 voltage-free relay contacts

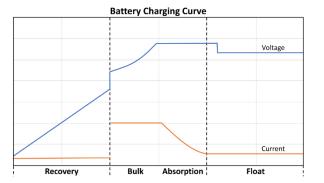
Norms - Certifications - Conformity

Electrical Safety Low Voltage Directive 2014/35/EU, 2014/35/UE as follow:

- EN60950-1, (UL60950-1, UL508, C22.2, EN60335-2-29, UL1236), EN IEC 62368-1:2014/AC:2015;
- EMC Emission EN55011 (CISPR11), EN55022 (CISPR22) Class B, EN61000-3-3
- **EMC Immunity** EN61000-4-2,3,4,5,6,8,11
- Fire Detection and fire alarm systems EN54-4
- Charging cycle DIN41773
- UL Pending

Battery Management

Rated Voltag	e	12 Vdc	24 Vdc	
Charging Cu	rve	3 stages (IUol	(IUoU) + Recovery	
Charging Cu	rrent setting (min/max)	1.0 A / 10.0 A	0.5 A / 5.0 A	
Battery Type, selectable by		Vented Lead, VRLA AGM lead,		
Dip Switch		VRLA Gel lead, Li-Io, Li-PoFe, NiCd		
Voltage max		14.75 Vdc	29.50 Vdc	
Boost Voltag	e	14.4 Vdc	28.80 Vdc	
Float Voltage, dip switch selectable		According to battery type		
Recovery Cha	arge	2-10 Vdc	2-20 Vdc	
Low Voltage	Disconnect (LVD)	9.3 Vdc	18.5 Vdc	
Threshold		3.3 Vuc	10.5 Vuc	
Low Voltage Alarm Threshold		11 Vdc	22 Vdc	
Time Boost-Bulk Charge (Typ. IN)		min 5 s, max 15 h		
Temperature Compensation		Digital sensor on UART Serial port		
Boost voltage Enable/Disable		Local dipswitch		
Protections		Reverse Polarity,		
		Disconnect	•	
		Wrong Batte		
Battery Diagnostics		Sulphated Battery,		
		Cell-In Short Circuit		
Life Test	Automatic Every 2 h in Standby, Manual on Push Button			



Features

Input Rated Input Voltage AC	115/230/277 Vac (range 85–305 Vac)	
Frequency Range		50/60 Hz (range 47–440 Hz)	
Input Current AC (Typ.)		1.6 A (115 Yac), 0.6 A (230 Yac) 110/220 Vdc (range 110-420 Vdc) 1.4 (110 Vdc), 0.5 A (220 Vdc) 15 A max	
Rated Input Voltage DC			
Input Current DC (Typ.)			
Inrush Current (Typ. Cold Start)			
Setup, Rise Time Max	1	1 s	
Recommended External Fuse/MCB	6 A, c	6 A, curve C	
Load Output – Power Supply Mode – N	lains ON & Battery OFF		
Voltage, selectable by Dip Switch 1	12 Vdc	24 Vdc	
Rated Current (I _R)	10 A	5 A	
Ripple / Noise ²	80 mV _{pp}	100 mV _{pp}	
Short Circuit Protection	У	es	
Over Load Protection	Constant Curre	Constant Current mode > 110% I _R	
Over Voltage Protection		35 Vdc	
Load Output – Standby Mode – Mains (
Voltage Range, Automatic Set ¹	12-14.4 Vdc	24-28.8 Vdc	
Max Continuous Current (I _R +I _{BATT})	15 A	10 A	
Max Current for 30 s	17 A	15 A	
Max Current for 15 s	20 A	20 A	
Max Current for 5 s	< 25 A	< 25 A	
Load Output – Backup Mode – Mains C			
Voltage Range, Automatic Set ¹	9.5-12 Vdc	18.5-24 Vdc	
Max Continuous Current (I _R +I _{BATT})	15 A	10 A	
Max Current for 30 s	17 A	15 A	
Max Current for 15 s	20 A	20 A	
Max Current for 5 s	< 25 A	< 25 A	
Start from battery with no mains		Yes, on Push Button < 90 mA	
Quiescent current	< 90) MA	
Signal Output/Input	6h		
Standby / Backup		Change-over relay contact, M termina	
Common Fault		Change-over relay contact, F termina Flashing code on 3, Three-color LED:	
Fullsetofmonitorandalarm LED signals	riasning code on	s, inree-color LEDS	
Climatic Data	25	5000	
Operating Ambient Temperature (T _A)		-25 up to +70°C	
Relative Humidity, no condensation@25°		max 95%	
Storage Temperature Cooling		-40 up to +85°C Natural Convection	
Cooling General Data	naturai C	onvection	
	>00%	×020/	
Efficiency (Typ.) Temperature Derating Factor ¹		>90% >92%	
Altitude Derating Factor Altitude Derating Factor		2.5 %/°C , T _A > 50°C 0.5°C/100 m, above 2000 m	
Insulation Voltage (In/Out)		4 kVac	
insulation voltage (in/Out)	4 K	4 KVaC	

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500 Vdc

> 100 MΩ

IP 20

60 x 130 x 126 mm

0.75 kg

0.8 kg

65 x 138 x 134 mm 0.0012 m³

Italy

Weight

Commercial Data

Country of origin

Insulation Voltage (In/PE) Insulation Voltage (Out/PE)

Insulation Resistance (500 V)

Protection Class (EN/IEC 60529)

Weight per unit, including packing

Volume per unit, including packing

Dimensions per unit, including packing

Pollution Degree Environment Dimensions (W x H x D)