

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

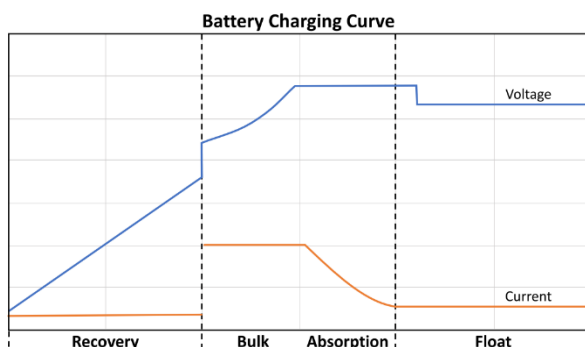
Norms – Certifications - Conformity

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 Voltage	12 Vdc	24 Vdc
Charging Curve	3 stages (IUoU) + Recovery	
Charging Current setting (min/max)	1.0 A / 10.0 A	0.5 A / 5.0 A
Battery Type, selectable by Dip Switch	Vented Lead, VRLA AGM lead, VRLA Gel lead, Li-Io, Li-PoFe, NiCd	
Voltage max	14.75 Vdc	29.50 Vdc
Boost Voltage	14.4 Vdc	28.80 Vdc
Float Voltage, dip switch selectable	According to battery type	
Recovery Charge	2-10 Vdc	2-20 Vdc
Low Voltage Disconnect (LVD) Threshold	9.3 Vdc	18.5 Vdc
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, Disconnected Battery, Wrong Battery Voltage, Sulphated Battery, Cell-In Short Circuit	
Battery Diagnostics		
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 Vac), 0.6 A (230 Vac)
Rated Input Voltage DC	110/220 Vdc (range 110-420 Vdc)
Input Current DC (Typ.)	1.4 (110 Vdc), 0.5 A (220 Vdc)
Inrush Current (Typ. Cold Start)	15 A max
Setup, Rise Time Max	1 s
Recommended External Fuse/MCB	6 A, curve C
Load Output – Power Supply Mode – Mains 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	yes
Over Load Protection	Constant Current mode > 110% I _R
Over Voltage Protection	35 Vdc
Load Output – Standby Mode – Mains ON & Battery ON	
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 OFF & Battery ON	
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
Quiescent current	< 90 mA
Signal Output/Input	
Standby / Backup	Change-over relay contact, M terminals
Common Fault	Change-over relay contact, F terminals
Full set of monitor and alarm LED signals	Flashing code on 3, Three-color LEDs
Climatic Data	
Operating Ambient Temperature (T _a)	-25 up to +70°C
Relative Humidity, no condensation@25°C	max 95%
Storage Temperature	-40 up to +85°C
Cooling	Natural Convection
General Data	
Efficiency (Typ.)	>90% >92%
Temperature Derating Factor ¹	2.5 %/°C, T _a > 50°C
Altitude Derating Factor ¹	0.5°C/100 m, above 2000 m
Insulation Voltage (In/Out)	4 kVac
Insulation Voltage (In/PE)	2 kVac
Insulation Voltage (Out/PE)	500 Vdc
Insulation Resistance (500 V)	> 100 MΩ
Protection Class (EN/IEC 60529)	IP 20
Pollution Degree Environment	2
Dimensions (W x H x D)	60 x 130 x 126 mm
Weight	0.75 kg
Commercial Data	
Weight per unit, including packing	0.8 kg
Dimensions per unit, including packing	65 x 138 x 134 mm
Volume per unit, including packing	0.0012 m ³
Custom Tariff HS	85044055
Country of origin	Italy

Authorised, valued-added distributor

Australia & New Zealand



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