

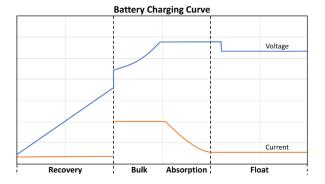
#### **Norms - Certifications - Conformity**

- 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,

- 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)	1.5 A / 15.0 A	1 A / 10 A	
Battery Type, selectable by	Vented & Sealed Lead Acid, AGM,		
Dip Switch	Li-Io, Li-PoFe, NiCd/Ni-MH		
Voltage max	14.75 Vdc	29.50 Vdc	
Boost Voltage	14.4 Vdc	28.8 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		
5 (3, ,	SBS Smart Temperature		
Temperature Compensation	Compensation probe (opt.)		
Boost voltage Enable/Disable	Local dip switch or Remote Link		
Protections	Reverse Polarity,		
	Disconnect		
	Wrong Batt	-	
Battery Diagnostics	Sulphated		
	Cell-In Sho		
Life Test Automatic Every 2 h in Standby, Manual on Push Button			
2.10 1000 , Catolilatic Every 2.11	January, Maria	z uz button	



DSH-DCU300M1224S-R2-DA28.docx

### **300 W**

## DCU Series - DC-UPS, AC/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
- Buffer time setting of load backup
- 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 manual on push button
- Extensive BATTSafe battery management firmware
- Full set of protection and monitoring functions
- Local monitoring and diagnostics on LEDs
- Remote alarms via 3 voltage-free relay contacts
- Communication via MODbus data link

#### **Technical data**

Rated Input Voltage AC	115/230/277 Vac (range 85–305 Vac)		
Frequency Range		50/60 Hz (range 47- 440 Hz)	
Input Current (Typ.)	2.8 A (115 Vac), 1.4 A (230 Vac) 110/220 Vdc (range 110-420 Vdc) 3.0 (110 Vdc), 1.5 A (220 Vdc) 15 A max 1 s 10A, curve B		
Rated Input Voltage DC			
Input Current DC (Typ.)			
Inrush Current (Typ. Cold Start)			
Setup, Rise Time Max			
Recommended External Fuse/MCB			
Load Output – Power Supply Mode – Ma			
Voltage, selectable by Dip Switch <sup>1</sup>	12 Vdc	24 Vdc	
Rated Current (I <sub>R</sub> )	15 A	10 A	
Ripple / Noise <sup>2</sup>	80 mV <sub>pp</sub>	100 mV <sub>pp</sub>	
Short Circuit Protection	•	es	
Overload Protection		nt mode > 110% I <sub>R</sub>	
Over Voltage Protection		Vdc	
<b>Load Output – Standby Mode –</b> Mains O			
Voltage Range, Automatic Set <sup>1</sup>	12-14.4 Vdc	24-28.8 Vdc	
Max Continuous Current (I <sub>R</sub> +I <sub>BATT</sub> )	≤20 A	15 A	
Max Current for 30 s	≤25 A	20 A	
Max Current for 15 s	≤27.5 A	25 A	
Max Current for 5 s	< 30 A	< 30 A	
Load Output - Backup Mode - Mains OF			
Voltage Range, Automatic Set 1	9.5-12 Vdc	18.5-24 Vdc	
Max Continuous Current (I <sub>R</sub> +I <sub>BATT</sub> )	≤20 A	15 A	
Max Current for 60 s	≤25 A	20 A	
Max Current for 30 s	≤27.5 A	25 A	
Max Current for 5 s	< 30 A	< 30 A	
Time Buffering for Backup	30 s up to ∞		
Start from battery with no mains		Yes, on Push Button < 90 mA	
Quiescent current	< 90	) MA	
Signal Output/Input			
Standby / Backup	Change-over relay		
Common Fault		Change-over relay contact, F terminal	
Charger failure		Change-over relay contact, S terminal	
Full set of monitor and alarm visual signals	Flashing code on 3, Three-color LEDs Dual RJ45 connector		
MODbus data link	Dual RJ45	connector	
Climatic Data			

Operating Ambient Temperature (TA) -25 up to +70°C max 95% Relative Humidity, no condensation@25°C Storage Temperature -40 up to +85°C **Natural Convection** Cooling General Data

Efficiency (Typ.)	>90%	<b>&gt;92</b> %
Temperature Derating Factor 1	2.5 %/°C, T <sub>A</sub> > 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)	80 x 130 x 126 mm	
Weight	0.9	kg
Commercial Data		

Weight per unit, including packing Dimensions per unit, including packing

Volume per unit, including packing Custom Tarif HS Country of origin

1.0 kg 85 x 138 x 134 mm 0.0014 m<sup>3</sup> 85044055 Italy

