





Product Service



Report No.: 713309139

<b>REPORT</b> <b>EN 12184:2022</b> <b>TUV SUD Test Report for electrically powered wheelchairs, scooters and their chargers - Requirements and test methods</b>			
Report No.:	713309139		
Date of issue:	2024-03-25		
Project handler:	Matthias Müller		
Testing laboratory:	TÜV SÜD Product Service GmbH		
Address:	Masurenweg 1-3, DE-30163 Hanover		
Testing location:	as above		
Client:	Sunrise Medical GmbH		
Client number:	1300036070		
Address:	Kahlbachring 2-4, 69254 Malsch / Heidelberg, Germany		
Contact person:	Mr. Gerhard Weis		
Standard:	EN 12184:2022		
TRF number and revision:	TRF EN 12184:2022 Rev. 0:2023-05		
eDoc_ID:	N/A		
TRF originated by:	TUV SUD Product Service, Mr. Matthias Müller		
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Scheme:	<input type="checkbox"/> TUV Mark <input checked="" type="checkbox"/> without certification <input type="checkbox"/> AoC/CoC for EU-Directive / EU-Regulation: <input type="checkbox"/> GS Mark <input type="checkbox"/> NRTL Mark <input type="checkbox"/> other:		
Non-standard test method:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, see details under <i>Summary of testing</i>		
National deviations:	N/A		
Number of pages (Report):	89		
Number of pages (Attachments):	N/A		
Compiled by:	Matthias Müller	Approved by:	Eike-Henning Hans
(+ signature)	 SIGN-ID 898941 25.03.2024	(+ signature)	 SIGN-ID 899030 25.03.2024

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Test sample:	HAN-755292-1, HAN-755292-2
Type of test object:	Add-on propulsion unit for manual wheelchairs
Trademark:	
Model and/ or type reference:	Empulse M90
Rating(s):	See copy of marking plate
Manufacturer:	Concourse Manufacturing
Manufacturer number:	N/A
Address:	9 Hamley Road, Mount Kuring-Gai, NSW 2080, Australia
<b>Name and address of factory(ies)</b> N/A	
Sub-contractors / tests (clause):	N/A
Name:	N/A
Order description:	<input checked="" type="checkbox"/> Complete test according to TRF
	<input type="checkbox"/> Partial test according to manufacturer's specifications
	<input type="checkbox"/> Preliminary test
	<input type="checkbox"/> Spot check
	<input type="checkbox"/> Others:
Date of order:	2023-04-04
Date of receipt of test item:	2023-03-04
Date(s) of performance of test:	2023-04-10 to 2024-03-25
<b>Test item particulars:</b> Add-on propulsion unit for manual wheelchairs, type Empulse M90 NOTE: A manual wheelchair (Sunrise Medical GmbH, type Easy Life) was used for testing purpose but was not part of this evaluation.	
	

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**Purpose of the product** (description of intended use):

The Empulse M90 is a power assist device and is suitable for manual wheelchair users who are limited in their field of activities because of their physical conditions. The device can expand their field of activities by providing assistive propulsion power.

**Characteristic data** (not shown on the marking plate):

total weight:	11.9 kg
rated voltage:	21.6 V <sub>DC</sub>
max. user weight:	120 kg
max. load	150 kg
rated slope:	6°
max. speed:	6 km/h
driving wheel:	
- size:	24"
- tyres:	air-filled <input checked="" type="checkbox"/> / rubber <input type="checkbox"/>
power electronics:	On-board control by Sunrise Medical GmbH
driving motor:	Maxon, EC60 fl. BL Y: 24 V <sub>DC</sub> , 150 W
battery:	Concourse Manufacturing, 6INR21700/40T: 24 V <sub>DC</sub> , 4 Ah, 96 Wh
battery charger:	Powertron Electronics Corp. PA1120-270T1A0444 Input: 100-240 V <sub>AC</sub> , 50-60 Hz, 2A Output: 27 V <sub>DC</sub> , 4.44 A
Charging dock	Concourse CAT-SW-1WCD 28 V <sub>DC</sub> , 1.5 A

**Attachments:**

N/A



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If additional information is necessary, please provide

Ambient temperature range during testing: 21.1°C to 23.3°C

Copy of marking plate:

 <b>CONCOURSE</b>  <b>Concourse Manufacturing</b> 9 Hamley Road, Mount Kuring-gai, NSW 2080		<div>EC REP</div> <b>Sunrise Medical GmbH</b> Kahlbachring 2-4 D-69254 Malsch / HD	 Max. 6°  Max. 120kg  2023-08 Part Number: CCP-01-08-1.2
<b>Model Number:</b> CAT-SW-1W24		<b>TYPE: Empulse M90</b> <b>24" Wheel System</b> <div>MD</div>	
 <small>(01)04053213000004(17)270526(10)3217C25(21)6585HR7C08</small>		<div>UDI</div>	
<b>Nominal Voltage:</b> 21.6VDC	<b>Battery Capacity:</b> 86.4Wh	<a href="http://www.concourseat.com">www.concourseat.com</a>	
			
		 -40°C to 65°C	
			

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**Pictures of the product:**



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