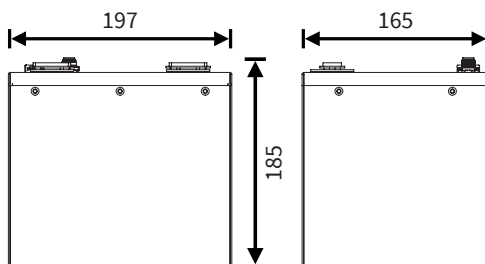


## CLF 40-24



## Cyclic Lithium battery (6000 cycles)

### Dimensions (mm)

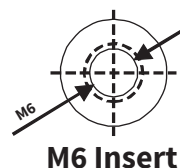


### Certifications



\*: Certification pending

### Standard terminal



## Typical applications

- High power electric vehicles
- Mobility scooters
- Electric wheelchairs
- AGV
- Medical equipment
- Solar energy
- Golf trolleys
- Electric boating
- Cleaning machines

## Features

- Active BMS protection
- CAN-bus communication
- Lithium LiFePO4 technology
- Maintenance free
- Durable ACCS housing
- Parallel connection only
- Produced under ISO 9001 & ISO 14001

Nominal voltage	25.6 V
Nominal capacity (25°C)	40.0 Ah
Nominal capacity (0°C)	≥36.8 Ah
Nominal capacity (-10°C)	≥26.0 Ah
Internal resistance	≤30mΩ (fully charged)
Self discharge	less than 3% per month
Charge temperature range	0°C ~ 55°C
Discharge temperature range	-20°C ~ 55°C
Charge voltage	29.2 V
Max. charge current	20 A
Max. constant discharge current	40 A
Max. pulse discharge current	120 A (Max. 30 sec)
Energy	5Hr: 1024Wh
Cut-off voltage	20.0 V
Communication	CAN-bus (250kb/s)
CAN-bus connector	M12; TE T4171210005-001
Standard terminal	Insert M6 (5.5 Nm torque)
Housing material	Anti Corrosion Coated Steel (ACCS)
Dimensions Length	197 mm
Dimensions Width	165 mm
Dimensions Height	185 mm (172mm ex. CAN-bus connector)
Approximate Weight	9.7 kg

## Compared to AGM

- **10x** Better cyclic performance
- **3x** Faster charging
- Just **30%** of the weight
- Just **50%** of the size
- Better suited for high current / high drain applications
- Lower costs per cycle
- Longer travel range

## Recommended

Having the right battery is often just the beginning. Optimal use of a battery requires having a good battery charger, so that the user can be sure that their battery is always optimally charged and has maximum lifespan.

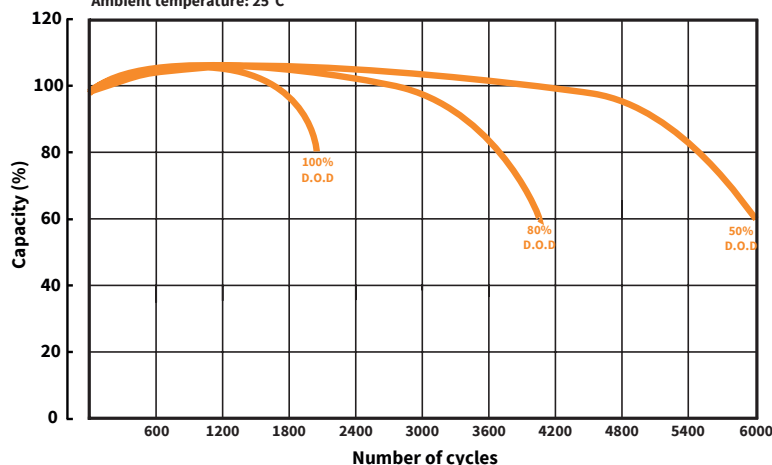
Cellpower offers various intelligent battery chargers, as well as battery testers, battery monitors and battery guards. All designed to easily monitor the battery quality and make sure the battery remains in the best condition possible.



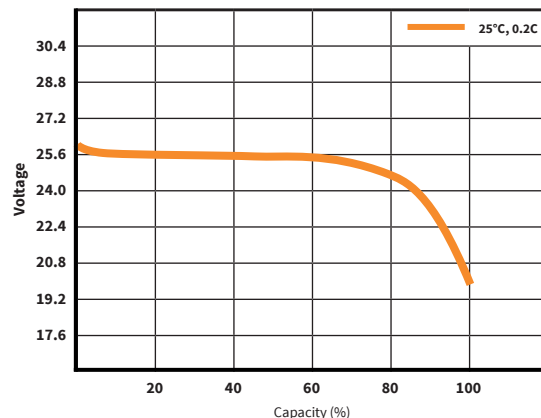
Recommended for CLF 40-24: **CCL** battery charger

## Cycle service life in relation to depth of discharge

Testing conditions: Discharge current 0.5C, charge 0.5C  
Ambient temperature: 25°C



## Discharge characteristics



## Models available

Model	Voltage	Capacity (Ah)	Dimensions (mm)	Weight (kg)
CLF 40-24	24	40	197x165x172	9.7
CLF 60-24	24	60	259x169x219	15.0
CLF 80-24	24	80	329x169x224	20.0
CLF 40-48	48	40	329x169x224	20.0

## Cellpower family

Cellpower supplies a broad range of reliable AGM, GEL and Lithium batteries. Each product series has its own unique characteristics, so that there is a suitable battery for every application with its associated specific usage profile. Combined with the right Cellpower battery accessories, you are able to assemble a high-quality and reliable battery system.



## Battery Management System (BMS) data

Charging voltage	28.4V ~ 29.2C CC/CV
Balancing current	50-75mA
Communication consumption	≤20mA
Standard mode consumption	≤10mA
Powerdown mode	≤100μA
Max. continuous charge current	80A
Max. continuous discharge current	80A
High voltage protection	30.4V ±0.1V
High voltage delay time	3 Sec
High voltage recovery	28.0V ±0.1V
Low voltage protection	20.0V ±0.1V
Low voltage delay time	3 Sec
Low voltage recovery	22.0V ±0.1V
Overcurrent protection	200A
Overcurrent delay time	3 sec
Overcurrent recovery mode	Disconnect load, auto recovery
Short-circuit protection	200-600uS
Short-circuit recovery mode	Disconnect load, auto recovery
Overtemperature protection cell	65°C
Overtemperature protection BMS	80°C, 1 measuring point
Protection circuit (MOSFET)	≤10mΩ
Operating temperature range	-20°C ~ 70°C

## CAN-bus connector output

CAN-bus output connector type	TE T4171210005-001 (male)	
Pin lay-out output	Pin 1	Shield
	Pin 2	Power (24Vdc+)
	Pin 3	GND (24Vdc-)
	Pin 4	CAN-High
	Pin 5	CAN-Low
Recommended specifications output cable	≥ 4x0,75mm²	
	Shielded & twisted cable type	