

# ***MP Access Intelligent Charger***



# *Positively top quality...*

Be it in our role as manufacturer, researcher & developer or distributor, quality is at the forefront of everything CenturyYuasa undertakes. As a manufacturer, we directly maintain two national plants employing some 650 people to create products that are as exceptional as our service.

We maintain the most extensive distribution network in Australia with Metropolitan Distribution Centres and Regional Depots supplying proven products to over 8000 battery resellers nationwide.

This incomparable national infrastructure combined with unrivalled grassroots expertise gives us the edge when it comes to working directly with forklift suppliers and their customers; we understand their expectations and we subsequently build batteries that suit their applications.

CenturyYuasa are committed to producing quality products and services that meet the varied needs of our wholesale, retail and industrial customers now and into the future. It's a future we are honour bound to protect. Hence our comprehensive recycling program that ensures old batteries are stabilised, with 96% of all forklift battery cells recycled in the most environmentally friendly manner on the planet.

This industry leading charger has the benefits of high efficiency power conversion as well as an inbuilt industrial microprocessor. This microprocessor enables the operator the ability to change a range of functionality the charger's output characteristics to best suit the application. Making it suitable for both flooded and value regulated lead acid batteries.

“ **High efficiency power conversion as well as an inbuilt industrial microprocessor** ”

The microprocessor uses a smart algorithm to optimise the charging profile. This optimisation has the benefit of delivering a fully charged battery in the shortest possible time while minimising the physical effects charging such as water consumption.

The Century™ MP Access charger also has an inbuilt battery queuing system. This queuing system allows operators to keep track of the charger and highlight which battery has the highest state-of-charge which can increase a battery's service life.

The high frequency switching technology means that less energy is consumed to provide the desired power as well as granting greater control of the power output. This technology has the added advantage of being lighter weight to conventional chargers. This means Century™ MP Access chargers can be wall mounted, reducing the risk of collision with equipment and improving the utilisation of space.



## ***Function***

The Century™ MP Access charger is a programmable charger that can be customised to provided the required voltage and current output to match the battery charging specifications. This results in higher charging efficiencies, and potentially reducing the number of hours that a battery requires to be charged.

## ***Intelligent Charging***

Century™ MP Access charger has an inbuilt microprocessor. This microprocessor enables the settings of the charger can be altered to enhance the charging requirements for an application. The enhancements to the settings can be done on commissioning of the charger or when conditions change after it is installed.

The microprocessor also continuously calculates the suitable charging output and monitors charging progress. Its software provides the ability to discontinue charging if any fault is encountered in the battery or the charger, temporarily or definitely depending on the nature of the fault. An indicator on the charger provides a visual warning a fault has occurred via the display.

## ***Performance History***

Being able to review the history associated with the charge and discharge cycles is possible with the Century™ MP Access charger. Storing around 2,000 cycles can enable a technician to review changes in the operation, which can aid improving the operation of material handling equipment and increasing the life of the battery.

“ ***Storing around 2,000 cycles can enable a technician to review changes in operating profiles, which can aid improving the operation*** ”

## ***Display and keyboard***

The display is alphanumeric and displays a range of information including charging time, ampere-hour values, mains voltage (Vac), statistics and other data. All of this can be viewed from the LCD display and accessed from the charger panel.

## Delayed charging

This function is used when a lower electricity tariff can be used. The desired start time is set via the keyboard. When the charger is initially connected to the battery, the charger provides a 'trickle charge'. This is to mitigate the battery from sulphating. At the pre-set time when off-peak tariff starts the charger will initiate its charging regime.

## Product Range & Selection Guide

Century™ MP Access chargers are available in a range of voltages to support 24VDC, 36VDC, 48VDC, 72VDC and 80VDC applications.

All chargers comply with Australian Standards and can be either wall or floor mounted (with stand).

## Features & benefits

Queuing battery system	➤	Increased life of the battery and run time of the forklifts
Century approved charging algorithm	➤	Improved charging efficiency and potential of reduced charging times
Capture and storage of performance data	➤	Improved analysis and management of charging requirements which can aid in fault detection
Programmed charge time	➤	Utilisation of lower tariff electricity pricing to potentially reduce peak electricity prices
Alarm indication and log	➤	Highlight immediate issues with charging and battery to operators
High frequency power conversion technology providing >91% efficiency.	➤	Increased power efficiency from input to output providing reduced power consumption
v charging parameters	➤	Reduce water consumption and physical deterioration of battery components