ST. GEORGE ENERGY

CHARGERS

# SERIE 5

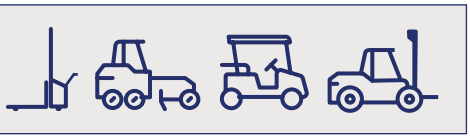
## Advanced line - Wa



### SUITABLE BATTERIES

Wet lead acid - PzS

### MAIN APPLICATIONS



### STANDARD AVAILABLE SIZES

| Ph | Vac | Output Voltage | | | | |
|---|---|---|---|---|---|---|
| | | 24 | 36 | 48 | 72 | 80 |
| 1Ph | 120 | from 40 to 60 A | from 25 to 40 A | from 20 to 30 A | // | // |
| | 208-240 | from 80 to 160 A | from 50 to 140 A | from 50 to 120 A | // | // |
| 3Ph | 208-240-440-480 | from 80 to 200 A | from 80 to 200 A | from 80 to 160 A | from 80 to 140 A | from 80 to 120 A |
| | 600 | from 80 to 200 A | from 80 to 200 A | from 80 to 160 A | from 80 to 140 A | from 80 to 120 A |

### AH RECHARGE TABLE

| A | >>> | 20A | 25A | 30A | 40A | 50A | 60A | 80A |
|---|---|---|---|---|---|---|---|---|
| Ah (C6) | 8h | 103 | 128 | 154 | 206 | 257 | 308 | 411 |
| | 12-14h | 132-147 | 165-184 | 198-220 | 265-294 | 331-367 | 397-441 | 529-588 |
| A | >>> | 100A | 120A | 140A | 160A | 180A | 200A | |
| Ah (C6) | 8h | 514 | 617 | 719 | 822 | 925 | 1028 | |
| | 12-14h | 661-735 | 794-882 | 926-1029 | 1058-1176 | 1190-1322 | 1323-1469 | |

# SERIE 5

## PRODUCT INTRO

Serie 5 represents the “Advanced” conventional Wa ranges, aimed for specific markets demanding structured or dedicated characteristics. This series features programmable board with internal memory, enhanced algorithms and USB (setting/troubleshooting/data-report). The integrated digital display permits the complete controlling, programming and diagnostic in real time. Security features involves both mechanical and software solutions.



## GENERAL CHARACTERISTICS

| | |
|---|---|
| **Mains** | 1phase 120Vac ±5%; 208-240Vac ± 5% 60Hz<br>3phase 208-240-440-480Vac ±5% 60Hz |
| **Visual signalling** | 5 LED advanced visualization + integrated DISPLAY for programming, diagnostic, and consulting data storage |
| **Main features** | • Automatic start, charging process and shutoff<br>• Universal Electronic Board with advanced digital setting by display: profile thresholds/ termination mode/equalization mode/delay start/cable compensation<br>• Final charging stage (adjustable in respect of bettery usage): temporal, capacitive (CF% and AH accumulated), derivative dv/dt<br>• Leakage power transformer: taper charger<br>• Wa charging profile (DIN 41774) |
| **Operating temperature** | +32° to +104° F (0° to +40° C) no derating (heavy climate version available) |
| **Efficiency** | 82/88% depending on power involved |
| **Certifications** | CSA |

## SAFETY FEATURES

| | |
|---|---|
| **Output protection** | Reverse polarity protection: fuse |
| **Thermal protection** | Leakage power transformer (class F) provided with thermal probes |
| **General protection** | Double security timer: gassing point/max charging duration; additional thermal protection based on algorithm managed by electronic board; battery detection with safety powering |

## MECHANICAL CHARACTERISTICS

| | |
|---|---|
| **Protection degree** | IP 21 |
| **Weight** | Depending on model size |
| **Input Cable** | Not supplied |
| **Output Cables** | 2.7 yd (2.5 m) +/-10% (length) - DC plug on demand |
| **Dimensions** (LxWxH) | I2C: 21.85 x 17.91 x 35.43 inches<br>P6C: 19.29 x 11.02 x 2.20 inches I2C P6C |

## STD FEATURES/OPTIONALS

| ADVANCED LINE | SERIE 5 |
|---|---|
| Integrated display | ✓ |
| Multiple input selection | ✓ |
| Cable holder | ✓ |
| USB port | ⊕ |
| Protection cage | ⊕ |

X = not available
✓ = standard feature
⊕ = on demand

DIGITAL PARAMETER SETTING M >> ⏻

UNIVERSAL CONTROL BOARD

USB

START RATE 15-20A 100Ah