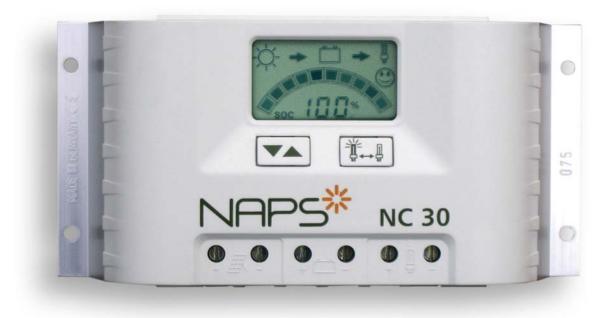


Naps NC 10 / NC15 / NC 30



Features

- For either 10, 15 or 30A current (NC10/15/NC30)
- Automatic selection of system voltage (12/24V)
- Electronic fuses and protection
- Charging procedure based on either battery state of charge or on battery voltage
- Four phase charging
- PWM (pulse width modulation) charging
- Temperature compensation of charging voltage
- Compensation of voltage loss in cabels
- Coated circut board to protect from moisture
- Battery type setting (gel/liquid)
- Three years warranty

Display

- Clear symbolic display
- Battery state of charge (%)
- Battery voltage (V)
- Module current (A)
- Charging current (A)
- Load current (A)
- Battery recharging meter (Ah)
- Battery discharging meter (Ah)
- Deep discharge warning





Flooded (open) battery (Li)

Voltage control

Technical data

Eelectrical data

System voltage 12 V or 24 V: automatic selection

Bat. voltage range for 12 V 6.9 V - 17.2 V17.3 V - 43.0 VBat. voltage range for 24 V Operating temperature range -10 °C - +50 °C

-20 °C - +80 °C Storage temperature range

• Current consumption 12 V: ca. 12,5 mA, 24 V: ca. 15,8 mA

PWM-frequency 30 Hz 45 V Maximum input voltage Minimun battery voltage 6,9 V

Current ratings

Max continuous panel current 10A (NC10), 15 A (NC 15), 30 A (NC 30) Max continuous load current 10A (NC10), 15 A (NC 15), 30 A (NC 30)

Charge volatge settings

 Float charge voltage 14,1 V / 28,2 V 13,9 V / 27,8 V

Gel battery (GEL)

14,4 V / 28,8 V Boost charging, 2 hours 14,4 V / 28,8 V • Equalization charging, 2 hours 14,7 V / 29,4 V

Temperature compensation +/- 4 mV / °K / cell (built-in sensor)

Activation of charge modes

SOC-control Voltage control Float charge regime SOC: >= 70 % >= 12,7 V or >= 25,4 VBoost charge SOC: 40 % - 69 % 11,7-12,4V or 23,4-24,8V SOC: < 40 %

Equalization charge < 11,7 V or 23,4 V

30 day equalization charge If boost or equalization charge has not been activated during past 30 days.

SOC-control

Low voltage disconnect

SOC < 40 % < 11,7 V / 23,4 V Warning SOC < 30 % Disconnect < 11,1 V / 22,2 V Automatic reconnect SOC > 50 % > 12,6 V / 25,2 V

Overtemperature protection

Load disconnect > 85 °C

Load reconnect < 75 °C

Mechanical data

IP 22 Proetection class Installation Vertical Weight 350 g

Recycleable plastic Material

187 mm x 96 mm x 44 mm Dimensions (W x H x D)

 $16 \text{ mm}^2 / 25 \text{ mm}^2$ Connectors (stranded/solid)

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