

# CIS-N Charge Controller

Reliable, Highly-Quality Controller for Industrial Solar Systems in Demanding Environments



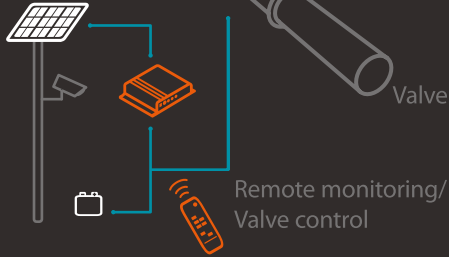
CIS-N series

## CIS-N Series: Robust Industrial Solar Charge Controller

The Phocos CIS-N solar charge controller series is the ideal solution for the demanding requirements of all industrial applications:

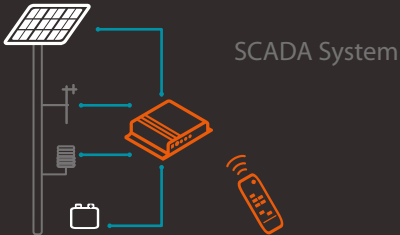
- **Automatic Battery Voltage Detection:** All CIS-N units are prepared for 12 V / 24 V charging systems
- **Three Available Current Sizes:** 5 A, 10 A or 20 A (Solar and Load Current)
- **Desert, Jungle & Sea-Proof:** Fully potted construction (IP68)
- **Infrared Programming:** Prevents unauthorized settings changes in the field
- **NRTL Certified to** Ordinary Locations and Class 1 Div. 2 Hazardous Locations
- **Two Load Ports** (Dual Load Version): Easier connection of two or more loads to one controller
- **Innovative Light Dimming Feature** (Single Load Version): For use in LED lighting applications
- **Load Disconnect Prioritization** (Dual Load Version): Adjustable disconnect set points for each load output
- **Easy to Program:** Free programming/simulation software (CISCOM)





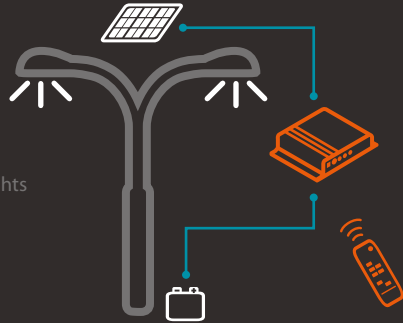
## CIS-N Series for Oil and Gas, Remote Monitoring and Control

- High-reliability controller that fits everywhere due to compact size
- Ability to optimize energy management of system through load prioritization
- 2nd Low Voltage Disconnect = Power two applications with one battery and one controller
- High-Quality German engineering with full NRTL certification for ordinary and hazardous locations
- Simple programming & simulation through free CISCOM software and PC connection via Infrared (MXI-IR)

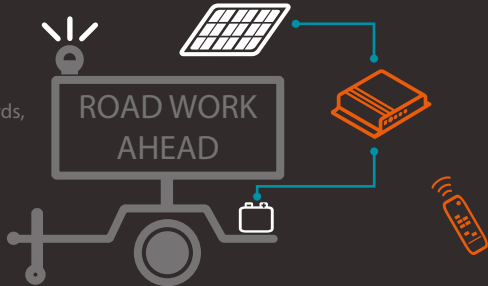


### The CIS-N solar charge controllers are ideal for:

- Chemical injection pumps
- SCADA systems & valve control
- Cathodic protection
- Climate & weather stations
- Agricultural monitoring
- Security & monitoring systems, etc.



Solar street lights



Message boards,  
Flasher

## CIS-N Series for Traffic and Lighting applications

- Sophisticated dimming functionality with auto-adaptation to seasonal changes
- Energy-saving function through 2nd Low Voltage Disconnect/Dimming that extends operating time of light in case of low battery voltage
- Simple load behavior simulation and programming via Phocos CISCOM (Free Download) and Infrared to USB Adapter (Part# MXI-IR)
- Fully compatible to Phocos CIS-DR Series Adjustable LED Drivers

### The CIS-N solar charge controllers are ideal for these and more applications in Traffic and Lighting:

- Solar powered streetlights & pathway lighting
- Bus shelter lighting & advertising billboards
- Mobile message/arrow boards & signaling
- Traffic monitoring & control systems, etc.



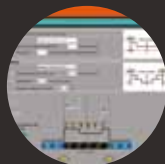
# The CIS family: Reliable solutions for any industrial Off-Grid application

Phocos CIS-N is fully compatible to



## CIS-CU Remote Control

Robust Infrared remote control for all CIS Family solar charge controllers



## CISCOM Software

Simulation and program software for all CIS charge controllers

See also:



## CIS-MPPT

Robust solar charge controller (IP68) with MPPT technology for any PV system up to 75 Voc input



## CIS-DR

Fully-encapsulated adjustable current LED drivers (IP67): Analog or PWM dimming, Three available versions up to 2,8 Amp LED current; 3 – 54 Volt.



## MXI-IR

Infrared to USB adapter for PC programming and data extraction (CIS-MPPT only)



## CIS-LED

Fully-encapsulated solar charge controller (IP68) with built-in 350 mA LED driver

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