

DINGO (20 A)

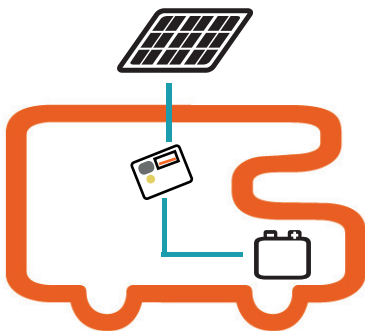
Industrial Solar Charge Controller



Powerful. Intelligent. Robust.

- Works in 12, 24, 32, 36 or 48V systems
- Charge, load and diversion control in one unit
- Backup generator control feature
- 512 days of system data logging

Fully programmable charge controller for simple and complex applications.



Phocos' DINGO charge controller has a negative ground that makes it a great option to be used in vehicles. Its communication interface uses the MODBUS protocol, which has been tried and tested in harsh environments.

The DINGO's large memory allows data such as charging Ah, load Ah, battery voltage range and the daily state of charge for 512 days. The data of the past 99 days can be accessed directly using the LC display with LED backlighting.

Programmable

- User-programmable charge regime and low-voltage disconnect
- Powerful event control feature can be programmed for the load port and/or a general purpose, voltage-only port

Informative

- Up to 512 days of battery data storage
- Back-lit LCD display shows real time and 99-days of historical data

Hybrid Control

- Auto generator start feature ideal for backup diesel and fuel cell gensets
- Terminals can be configured as diversion load controllers for wind/hydro charging inputs

Robust

- Operates at full charge and load current simultaneously up to +50C
- Fully protected against reverse battery and PV polarity

Application Examples

- SCADA Systems
- RVs
- Solar Message Boards
- Chemical Injection Pumps
- Transportation



Technical Data

Type	Dingo
System voltage	12/24/32/36/48 V (Selectable)
Max. charge/load current	20 A
Float charge	13.0 V - 60.0 V (Adjustable)
Boost charge	13.5 V - 66.0 V (Adjustable)
Equalization charge	14.0 V - 68.0 V (Adjustable) (at least every 30 days)
Load disconnect voltage	10.0 V - 50.0 V
Reconnect level	11.0 V - 64.0 V (Adjustable)
Max. panel voltage	100V
Temperature compensation (charge voltage)	Default: -5mV/K per cell (Adjustable)
Self-consumption	9mA@12 V - 26mA@60 V
Grounding	Negative ground
Ambient temperature	-4 to 131 °F (-20 to 55 °C)
Max. elevation	13,000 ft (4,000 m) above sea level
Battery type	Lead Acid (AGM, GEL, flooded)
Wire cross section	6 AWG (16mm ²)
Dimensions (W x H x D)	5.4 x 4.8 x 1.8 in (137 x 121 x 45 mm)
Weight	8.6 oz (455 g)
Type of protection	IP20

Product Family



Dingo 20/20
Negative ground
System voltage settings 12/24/32/36/48V
Max. charge/load current: 20A



Dingo 40/40P
Positive Ground
System voltage settings 12/24/32/36/48V
Max. charge/load current: 40A



D232
RS232 Interface for Dingo Series
Remote access via modem
Access system data/settings



DUSB
USB Interface for Dingo Series
Access system data/settings



DNet
Ethernet adapter for Dingo series
Remote access to real time system data
Auto-log data via DNet Capture PC app



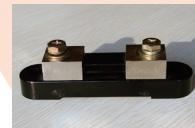
DSA
External Shunt Adapter allows the Dingo to measure charge or load currents which do not go through the controller internal SHUNT



DT
Remote temperature sensor for Dingo series controllers
Neoprene



DTB
Remote temperature sensor for Dingo series charge controllers
Bolt-on



SHUNT
External current shunt for Dingo series charge controllers



PRISM
PC software for Dingo series
Make settings changes and access data in real time
Access up to 512 days worth of data