INTELLICHARGE SERIES

DC Power Supply and 3-Stage Battery Charger
12, 24 and 48 Volt DC Models

The ICT IntelliCharge Series is a high efficiency, power factor corrected DC power supply and battery charger that brings sophisticated features into a compact design.

- Operates as a DC UPS, providing uninterrupted DC power to critical loads, even when AC mains fail.
- Wide-ranging power factor corrected AC input helps reduce energy costs and works anywhere in the world.
- Intelligent three-stage charging recharges battery quickly and maintains it in optimal condition.
- 12, 24 and 48 volt DC models with 360 watts of power output.
- Independent battery backup charging terminals with internal Low Voltage Disconnect.
- User selectable battery type sets charge cycle transitions for use with standard Flooded, AGM and Gel lead-acid batteries.
- User definable bulk charge current setting.
- Form C alarm contacts provide remote signal of fault conditions.
- Temperature-compensated charging with optional battery temperature sensor.
- Compact design allows for mounting one or two units in an optional 1RU Rack Mount Tray.
- Optional high resolution OLED display provides real time information on current, voltage and charge status.

The ICT IntelliCharge Series design allows the battery charge to be regulated independently from the DC outputs, meaning that the battery will always receive the optimal charging current without the load being affected. Intelligent 3-stage charging will bring a battery back to a full state of charge much faster than trickle or float charging can.

High Reliability

- Developed and manufactured in North America by ICT
- Designed with the highest quality components available
- Form C contacts provide remote alarm monitoring
- 2 year warranty

Performance & Flexibility

- 12, 24 and 48 volt DC models available
- 90 to 93% efficiency at 230VAC input
- Power factor corrected AC input voltage range of 100-265VAC
- -30C to +60C operating temperature range
- Form C alarm contacts
- Intelligent 3-stage battery charging with integrated LVD
- Operates as a DC power supply for running loads while providing optimal battery charging
- Automatically switches load to battery source when AC fails to provide uninterrupted DC power to the load

Innovative Design

- Ultra-quiet operation meets FCC Class B
- High efficiency design saves energy costs
- Intelligent 3-stage charging restores battery faster after AC power outage, and prolongs battery life
- Temperature compensated charging ensures batteries are charged to full capacity in cold environments and protected from over-charging in hot environments

(Shown with optional OLED display)

RoHS

Power Specifications

Continuous Output Current - 12V	30A
Continuous Output Current - 24V	15A
Continuous Output Current - 48V	7.5A
Efficiency (typical) - 12V	90% @ 220VAC
Efficiency (typical) - 24V	91% @ 220VAC
Efficiency (typical) - 48V	93% @ 220VAC
Default Output Float Voltage - 12V [(a)]	13.65VDC
Default Output Float Voltage - 24V	27.3VDC
Default Output Float Voltage - 48V	54.6VDC
Input Voltage Range	100-265VAC
Frequency Range	50/60Hz
Power Factor (typical)	0.99
Output Ripple - all models	< 50mV RMS
LVD Disconnect Voltage - 12V	11.0VDC
LVD Disconnect Voltage - 24V	22.0VDC
LVD Disconnect Voltage - 48V	44.0VDC
LVD Reconnect Voltage - 12V	12.5VDC
LVD Reconnect Voltage - 24V	25.0VDC
LVD Reconnect Voltage - 48V	50.0VDC

(a) Factory default set for flooded. User adjustable for AGM or gel.

Mechanical

Dimensions L x W x H (inches/mm)	7.9 x 5.9 x 1.8 / 200 x 149 x 46
Weight (lbs/kg)	2.61 / 1.19
AC Input Connectors	IEC 320-C14
DC Output Connectors	4 position terminal block
Remote Alarm Connectors	5 position pluggable wire clamp connector
AC Input Cord	Australian AS/NZS AU1-10P plug and straight IEC 60320 connector

Environment

Operating Temperature Range	-30°C to +60°C Derate 2%/ C > 50 C

Standards

CSA22.2 No. 60950-1, FCC part 15 Class B, RCM, CE, RoHS

Protection Features

Over-temperature, over-voltage, input under-voltage, constant current limit with foldback

Warranty

Two years

Options

Remote Battery Temperature Sensor	2 wire remote temperature sensor wih 10 ft (3m) cable and mounting clip. Will enable charge voltage thresholds to be automatically compensated according the measured battery case temperature.
Digital Meter	Optional OLED digital display provides voltage, current and charging status. Must be specified at time of ordering.
19" Rack Mount Tray	Allows one or two IntelliCharge power supplies to be mounted in a 1RU 19" rack.

Ordering Information

DESCRIPTION	12VDC Output	24VDC Output	48VDC Output
IntelliCharge Series Power Supply/Battery Charger, 360 Watts Output Power	ICT24012A-30BC2	ICT24024A-15BC2	ICT24048A-7BC2
IntelliCharge Series Power Supply/Battery Charger, 360 Watts, Digital Meter	ICT24012A-30BC2M	ICT24024A-15BC2M	ICT24048A-7BC2M
Remote Battery Temperature Sensor	←	ICT-TMP	→
19 " Rack Mount Tray (holds 1 or 2 IntelliCharge units)	←	ICT-RM1U / RM2U	→

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