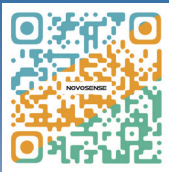


NOVOSENSE

Renewable Energy & Power Supply Solution



NOVOSENSE
Company Brochure



NOVOSENSE
Product Selection Guide



NOVOSENSE
Automotive Solution



NOVOSENSE
Renewable Energy & Power
Supply Solution



NOVOSENSE
Industrial
Control Solution



NOVOSENSE
Home Appliance
Solution



NOVOSENSE Microelectronics

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 www.novosns.com  NOVOSENSE Microelectronics

Release Date: October, 2025



NOVOSENSE: Highly Robust and Reliable Analog and Mixed Signal Chip Provider

- Robust
- Reliable
- Keep Learning
- Persist in Long-term Value



NOVOSENSE Microelectronics (NOVOSENSE, SSE Stock Code 688052) is a highly robust & reliable analog and mixed signal chip company. Since its establishment in 2013, the company has been focusing on sensor, signal chain, and power management, providing comprehensive semiconductor products and solutions, which are widely used in automotive, industrial, information communication and consumer electronics markets.

With the mission of "Sense & Drive the Future, Build a Green, Smart and Connected World with Semiconductors" , the company is committed to providing chip-level solutions to link the digital world and the real world.

For more information and sample application, please visit: www.novosns.com



2013
Establishment



1200+
Employees
(as of first half of Y2025)



~USD 214 million
Revenue
(first half of Y2025)



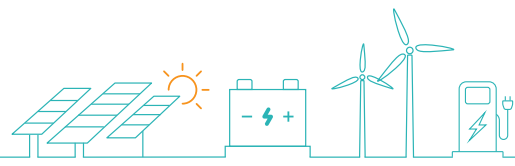
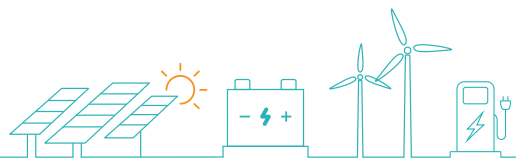
A provider for
all-category analog
& mixed signal chips



A leading chip
provider for automotive
applications



A leading provider
for digital isolators
and sensors



Key Advantages of NOVOSENSE Renewable Energy & Power Systems

Comprehensive portfolio

Sensors, signal chain, power management, and MCUs for solar, storage, UPS, and power systems.

Efficient energy conversion

High-precision sampling and high-performance drivers for greater efficiency and reliability.

Safety & isolation

High voltage tolerance, strong EMI immunity, certified by international safety and EMC standards.

Agile support

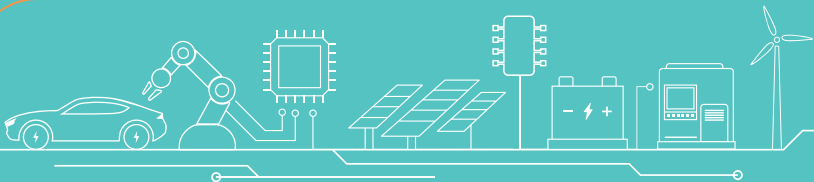
Flexible product design and fast technical response to improve delivery and competitiveness.

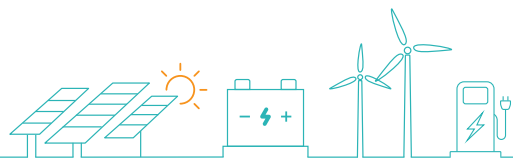
Enabling green energy

Widely used in PV inverters, storage converters, and smart power systems to support renewable integration.

Renewable Energy & Power Supply Application overview

Renewable Energy and Power Supply Application	MCU	Power Device	Digital Isolator	Isolated/ Non-Isolated CAN	Isolated/ Non-Isolated 485	Isolated I ² C	Isolated Driver	Non-isolated Driver	Isolated Power	Flyback	Buck	LDO	Isolated Sensing	Hall Current Sensor	Current detecting amplifier	Operational Amplifier	Isolated comparator	Temperature Sensor	Volatge Reference	Supervisor & Reset IC	Oring & Hotswap
String Inverter	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	
Micro Inverter	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓							
Residential Storage Inverter	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	
PCS	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	
Portable Power Station	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Control Panel Solution of DC Charger	✓		✓	✓	✓				✓			✓	✓	✓		✓					
Power Module	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
UPS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
AC-DC Power Supply (Communication and Server Power Supply)	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DC-DC Power Supply (Industrial Power Supply, Power Module)	✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓	✓		✓			
Adapter Power Supply	✓	✓	✓				✓	✓		✓											





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EV Charger Solution

- 13 Control Panel Solution of DC Charger
- 14 Power Module

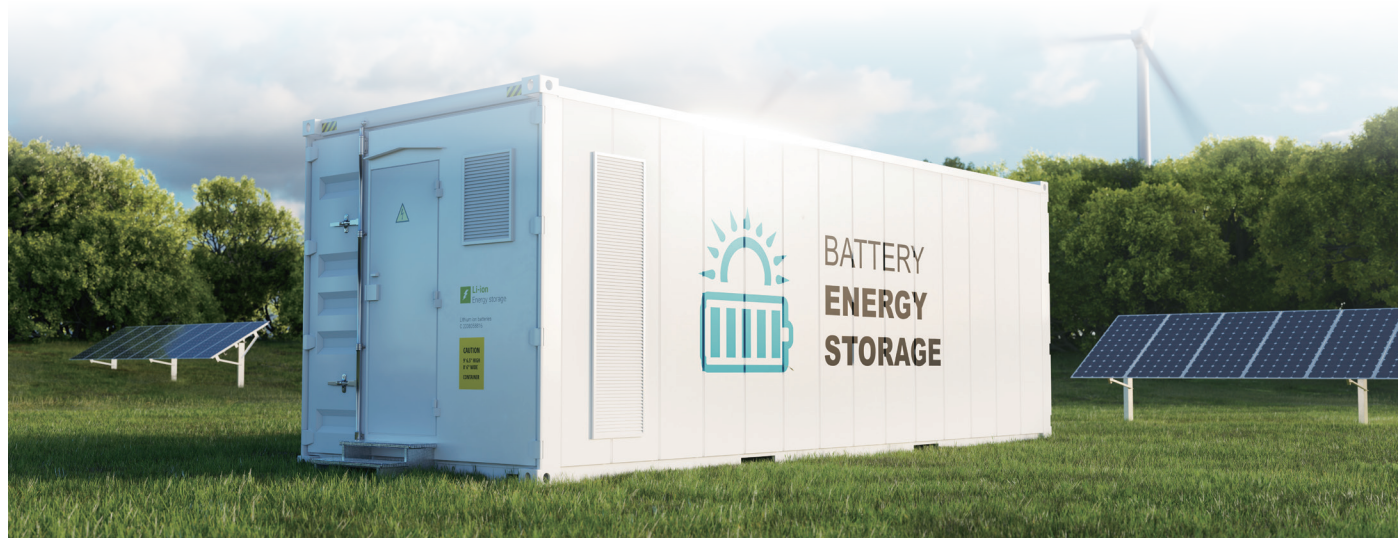
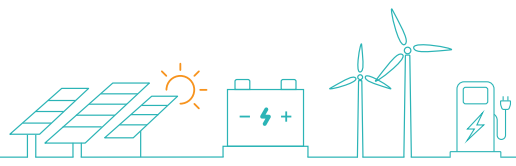
Digital Power Supply Solution

- 16 UPS
- 17 AC-DC Power Supply
- 18 DC-DC Power Supply

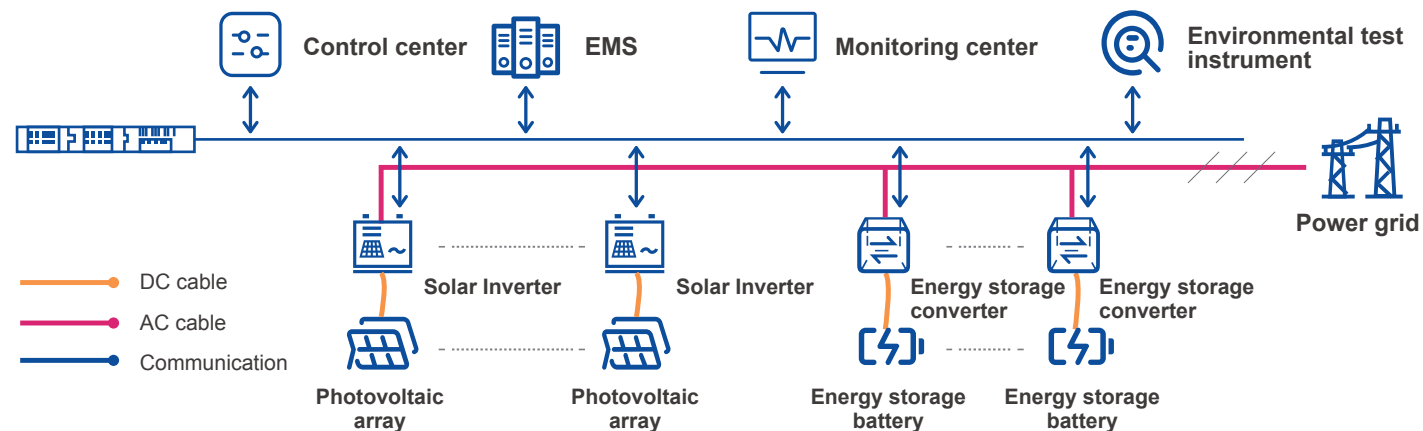


NOVOSENSE PV System Solution





PV & Energy Storage System Solution



Solar Inverter/ Energy Storage Converter

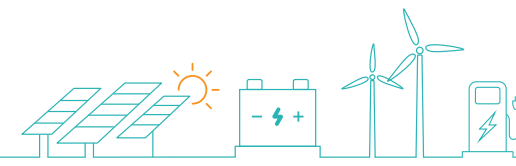
- ISO/Non-ISO driver IC
- ISO current/Voltage sensing IC , Hall current sensor
- Digital isolator , ISO interface (w/o ISO power) IC
- Flyback/Buck/LDO/power monitoring IC
- General operational amplifier
- High-precision voltage reference
- MCU

PV Array/Optimizer

- ISO current/Voltage sensing IC , Hall current sensor
- Digital isolator/ISO interface/ISO power/Interface IC
- Flyback/Buck/LDO/power monitoring IC
- General operational amplifier
- Smart diode
- Temperature sensor
- MCU

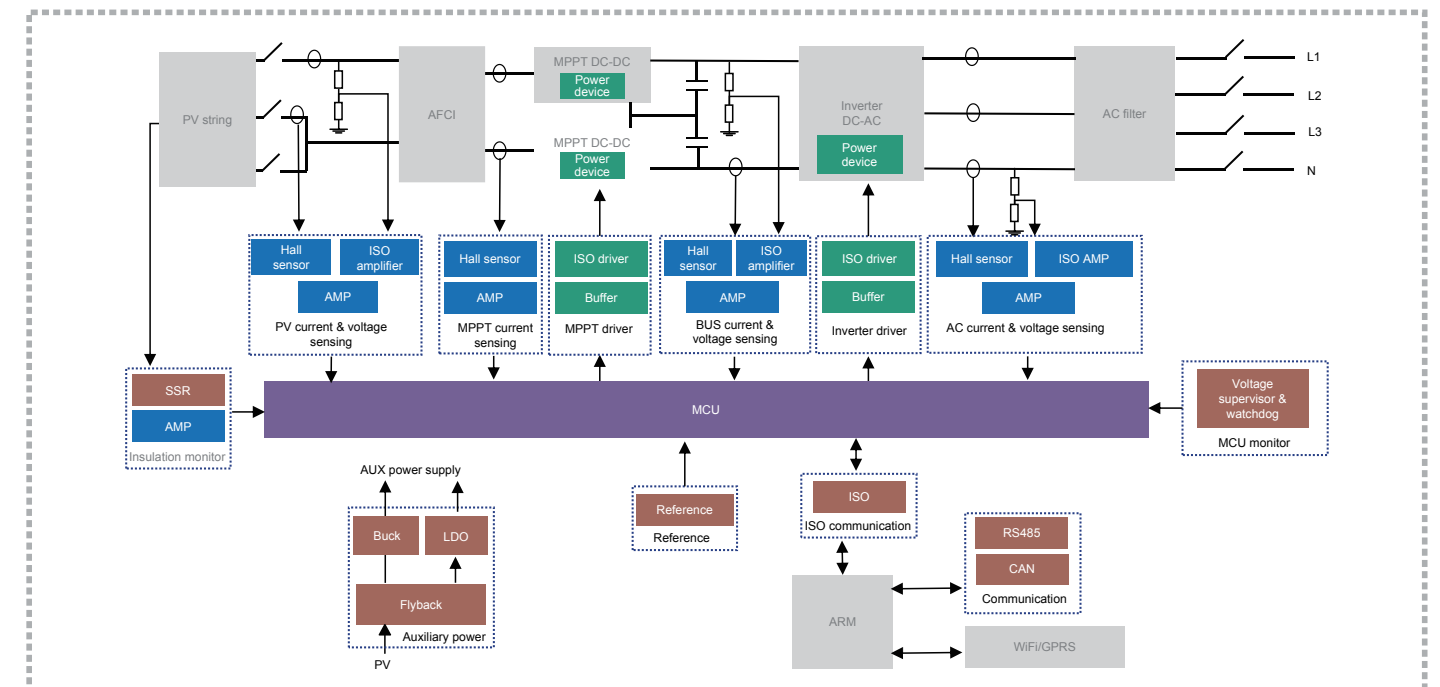
Energy Storage Battery /BMS

- ISO current/Voltage sensing IC , Hall current sensor
- Digital isolator/ISO interface/ISO power/Interface IC
- Flyback/Buck/LDO/power monitoring IC
- General operational amplifier
- High-precision voltage reference
- Temperature/Humidity sensor and pressure sensor



String Inverter

String PV inverters are currently the most popular type. They typically consist of two stages: a DC-DC stage for Maximum Power Point Tracking (MPPT) and fixed DC voltage conversion, followed by a DC-AC stage for AC power conversion.



MCU

- MCU (NS800RT5039, NS800RT5049, NS800RT7374, NS800RT7379D)

Current & voltage & temperature sensing

- Hall current sensor (NSM201x, NSM211x, NSM2311)
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI36xx)
- Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084)
- Temperature sensing (NST235, NST20, NST1001, NST1002)

Gate driver & Buffer

- Isolated single-channel driver (NSI6601, NSI6601M, NSI6801, NSI6801M)
- Buffer (NCA8244)

Power device

- 1200V SiC Diode (NPD0x0N120A, 1200V, 20/30/40/50A)
- 1200V SiC MOSFET (NPC0x0N120A, 1200V, 40/60/80mohm)
- 650V Super Junction MOSFET (NPS0x0N065A, 650V, 37/73mohm)

Power management

- Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
- Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)
- LDO (NSR31xxx, NSR33xxx, NSR35xxx)

Interface & digital isolation

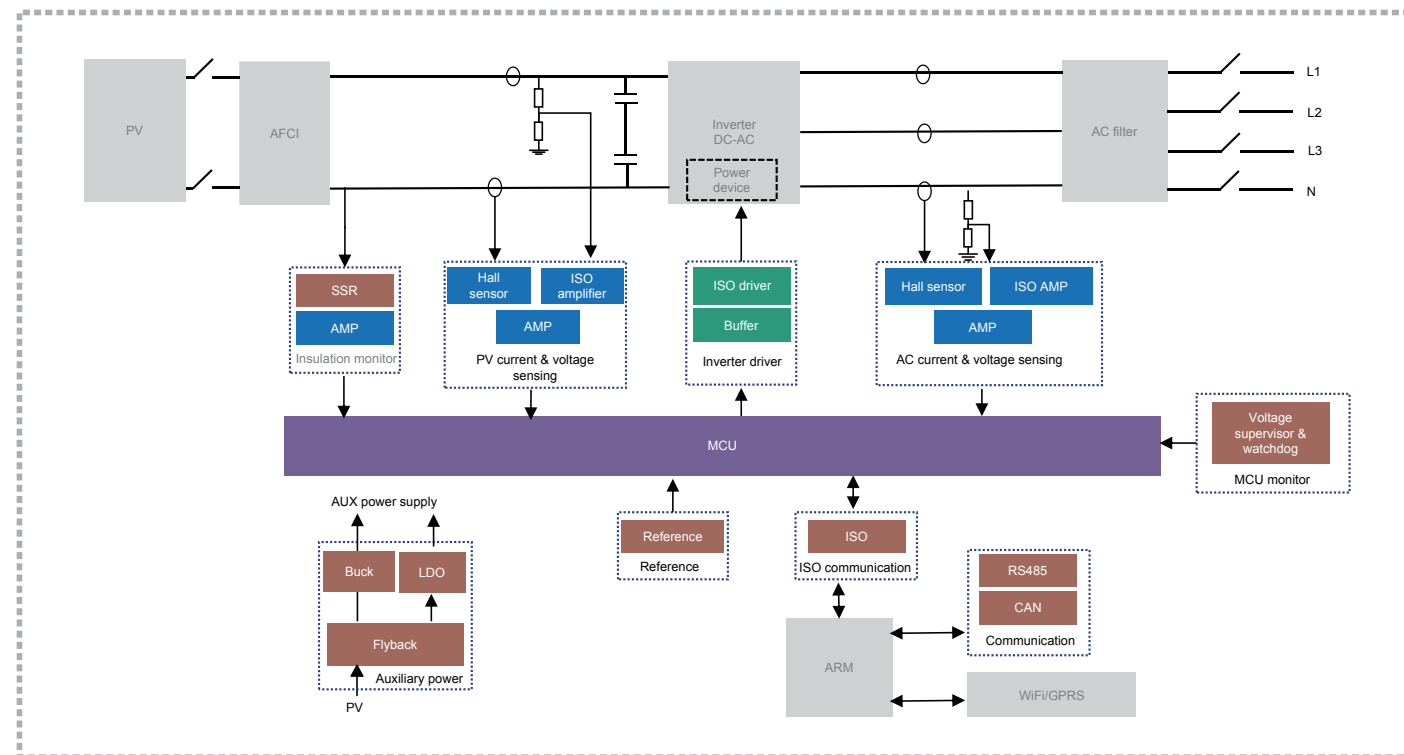
- CAN transceiver (NCA1043(B), NCA1042B, NSI1050, NSI1042)
- Digital isolator (NSI824x)
- RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)

Protection & reference & others

- Reference (NSREF30xx, NSREF31xx)
- Voltage supervisor (NSR7808, NSD7850)
- Solid-state relay (NSI7107, NSI7258)

Centralized PV Inverter

Centralized PV Inverter is widely used in large-scale photovoltaic power plants, converting DC power generated by PV modules into AC power for grid integration. With power ratings typically ranging from 500kW to several MW, it is ideal for large-scale centralized deployment, offering high conversion efficiency, reliability, and low maintenance costs. Equipped with Maximum Power Point Tracking (MPPT) technology and advanced grid adaptability, centralized inverters optimize energy generation and ensure stable grid operation, playing a crucial role in applications such as ground-mounted solar farms, agrivoltaics, and floating solar power systems.



MCU

- MCU (NS800RT5039, NS800RT5049, NS800RT7374, NS800RT7379D)

Gate driver & Buffer

- Isolated single-channel driver (NSI6601, NSI6601M, NSI6801, NSI6801M, NSI6601xE, NSI6801E)
- Buffer (NCA8244)

Interface & digital isolation

- CAN transceiver (NCA1043(B), NCA1042B, NSI1050, NSI1042)
- Digital isolator (NSI824x)
- RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)

Current & voltage & temperature sensing

- Hall current sensor (NSM201x, NSM211x, NSM2311)
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI36xx)
- Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084)
- Temperature sensing (NST235, NST20, NST1001, NST1002)

Power management

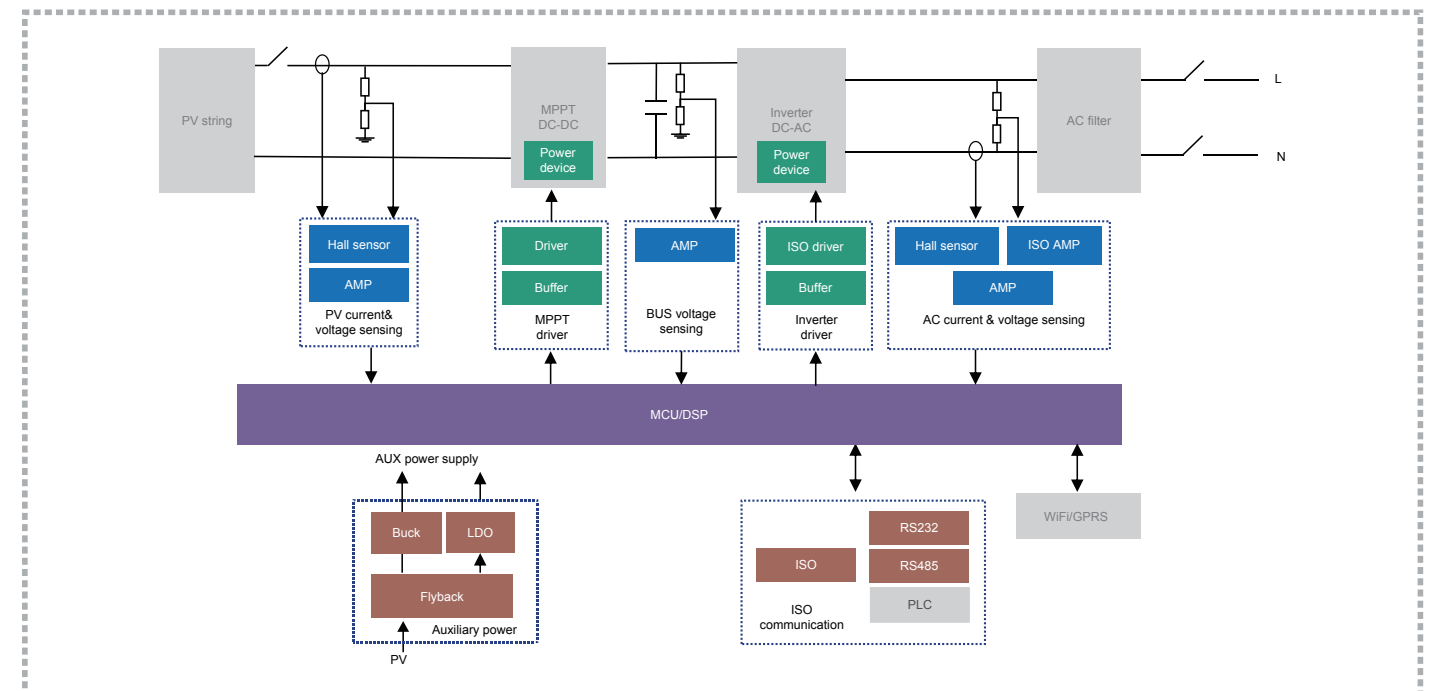
- Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
- Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)
- LDO (NSR31xxx, NSR33xxx, NSR35xxx)

Protection & reference & others

- Reference (NSREF30xx, NSREF31xx)
- Voltage supervisor (NSR7808, NSD7850)
- Solid-state relay (NSI7107, NSI7258)

Micro Inverter

Micro inverter performs maximum power point tracking at the module level. It directly integrates the individual PV module with the inverter. The AC/DC conversion and maximum power tracking functions of each module can be performed independently, thus maximizing the overall output power.



MCU

- (NS800RT5037, NS800RT3025, NS800RT1137)

Gate driver & Buffer

- Isolated driver (NSI6602V, NSI6602ME, NSI6601, NSI6601M, NSI6601xE, NSI6801, NSI6801M, NSI6801E)
- Non-isolated driver (NSD1026V, NSD1624, NSD2621, NSD2622N)
- Buffer (NCA8244)

Power management

- Flyback (NSR2240x, NSR2240x, NSR2260x)
- Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)
- LDO (NSR31xxx, NSR33xxx, NSR35xxx)

Current & voltage & temperature sensing

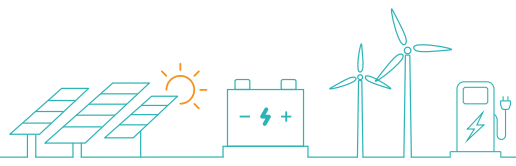
- Hall current sensor (NSM201x, NSM211x)
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311)
- Amplifier (NSOPA9xxx, NSOPA8xxx)

Power device

- 1200V SiC diode (NPD0x0N120A, 1200V, 20/30/40/50A)
- 650V Super junction MOSFET (NPS0x0N065A, 650V, 37/73mohm)

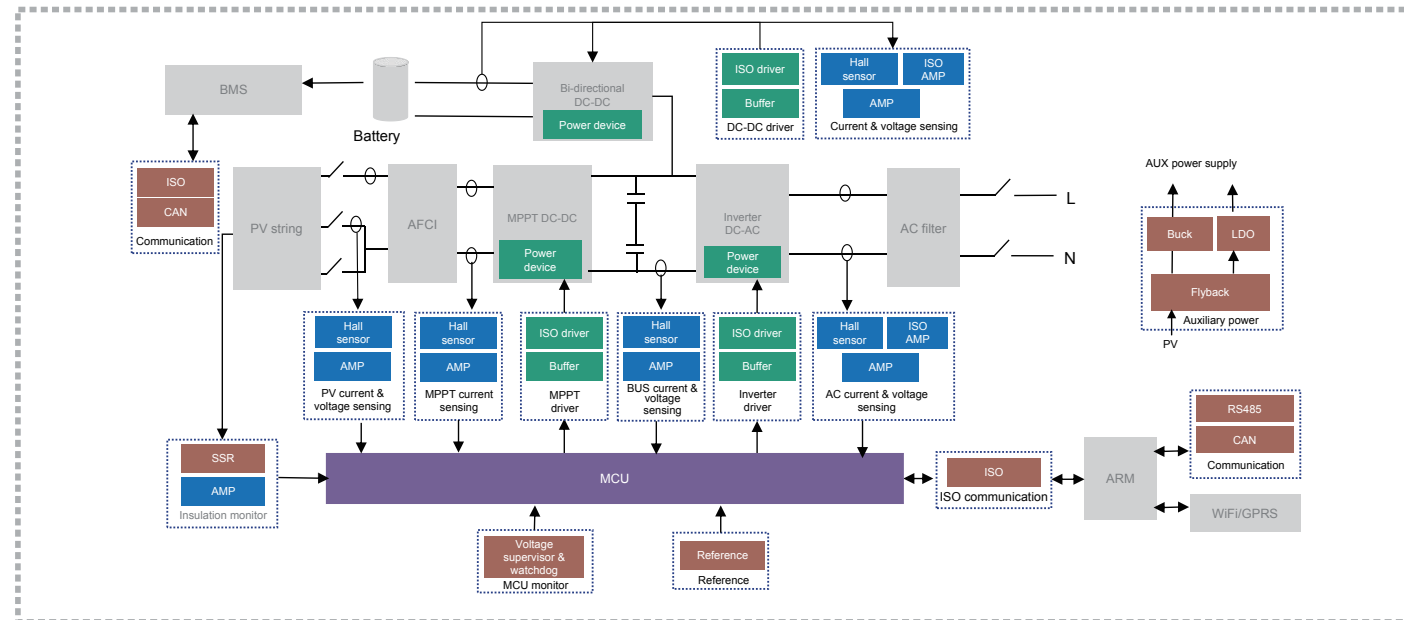
Interface & digital isolation

- Digital isolator (NSI824x, NIRS31, NIRS21)
- Isolated power ((NSIP884x, NSIP894x)
- RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)
- CAN transceiver (NCA1051A, NCA1042B, NSIP1042, NSI1050, NSI1042)



Residential Storage Inverter

The energy storage inverter is the core equipment of the residential energy storage system. It realizes the AC-DC conversion between the battery and the grid as well as the load side, enabling not only the charging and discharging control of the energy storage battery but also the control of power transmission to the grid. In addition, the energy storage inverter is also the information processing control center of the residential energy storage system. It needs to process various information from the rooftop photovoltaic power generation side, the residential energy-consuming load side, and the storage battery power side, and formulates control strategies according to different application scenarios.



MCU

- MCU (NS800RT5039)

Gate driver & Buffer

- Isolated single-channel driver (NSI6601, NSI6601M, NSI6601xE, NSI6801, NSI6801M, NSI6801E, NSI6602ME)
- Isolated half bridge driver (NSI6602V)
- Buffer (NCA8244)

Power management

- Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
- Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)
- LDO (NSR31xxx, NSR33xxx, NSR35xxx)

Current & voltage & temperature sensing

- Hall current sensor (NSM201x, NSM211x, NSM2311, MT9519)
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI36xx)
- Amplifier (NSOPA9xxx, NSOPA8xxx)
- Temperature & humidity sensor (NST1002, NSHT3x)

Power device

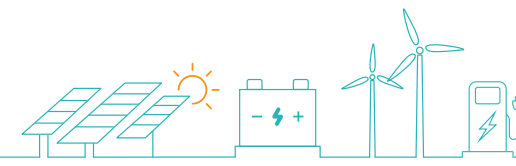
- 1200V SiC diode (NPD0x0N120A, 1200V, 20/30/40/50A)
- 1200V SiC MOSFET (NPC0x0N120A, 1200V, 40/60/80mohm)
- 650V Super junction MOSFET (NPS0x0N065A, 650V, 37/73mohm)

Interface & digital isolation

- Digital isolator (NSI824x)
- RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)
- CAN transceiver (NCA1043(B), NCA1042B, NSI1050, NSI1042)

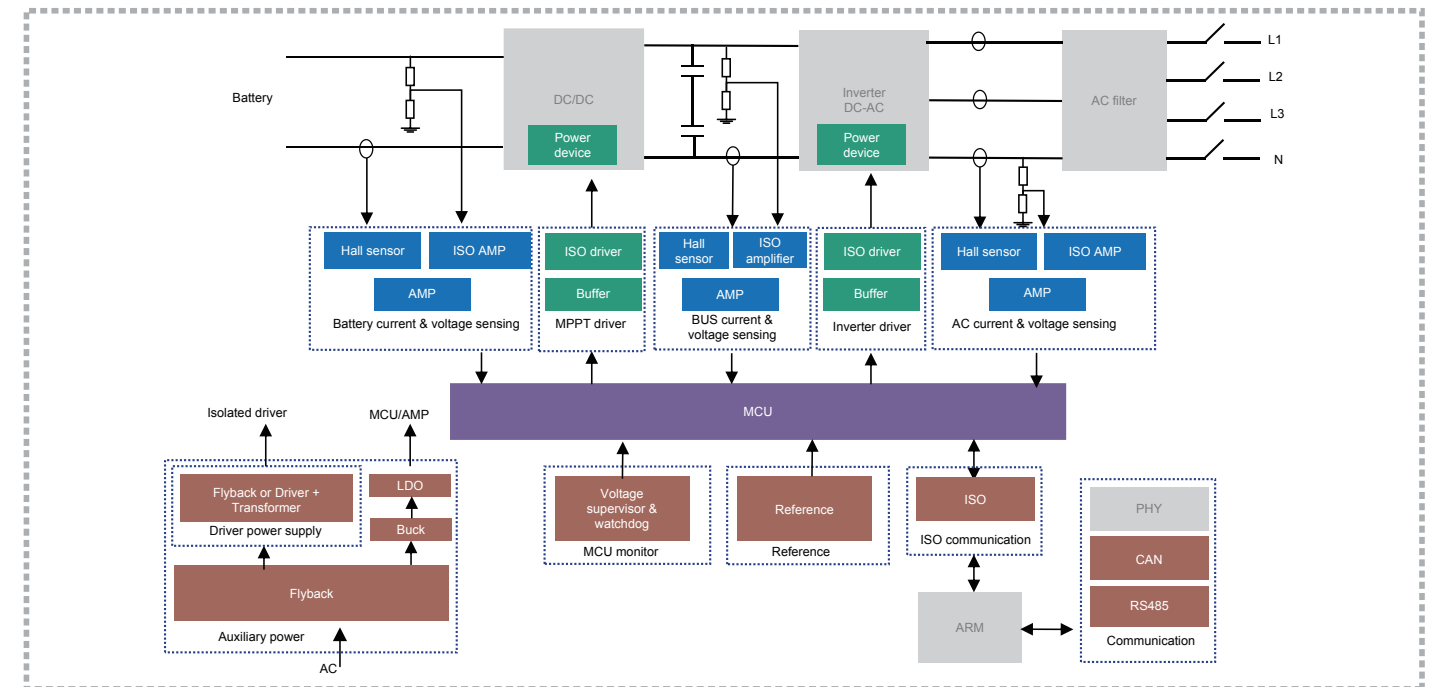
Protection & reference & others

- Reference (NSREF30xx, NSREF31xx)
- Voltage supervisor (NSR7808, NSD7850)
- Solid-state relay (NSI7107, NSI7258)



PCS

PCS is the core device of the energy storage system. It is a bidirectional energy conversion device that can control the charging and discharging process of the energy storage system and also realize the bidirectional conversion of AC and DC. It can directly supply power to the load when there is no grid, and also can adjust the active power and reactive power of the grid in the case of grid connection.



MCU

- MCU (NS800RT7374, NS800RT7379D, NS800RT7P65, NS800RT7P65D)

Gate driver & Buffer

- Isolated single-channel driver (NSI6601, NSI6601xE, NSI6801, NSI6801E, NSI68515, NSI6611, NSI6711)
- Isolated half bridge driver (NSI6602V)
- Buffer (NCA8244)

Power management

- Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
- Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)
- LDO (NSR31xxx, NSR33xxx, NSR35xxx)
- ISO power (NSI3266)

Current & voltage & temperature sensing

- Hall current sensor (NSM201x, NSM211x, MT9519)
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI36xx)
- Amplifier (NSOPA9xxx, NSOPA8xxx)
- Temperature sensing (NST235, NST20, NST1001, NST1002)

Power device

- 1200V SiC Diode (NPD0x0N120A, 1200V, 20/30/40/50A)
- 1200V SiC MOSFET (NPC0x0N120A, 1200V, 40/60/80mohm)
- 650V Super junction MOSFET (NPS0x0N065A, 650V, 37/73mohm)
- 650V IGBT (NPIOX0N065A, 650V, 30A/50A)

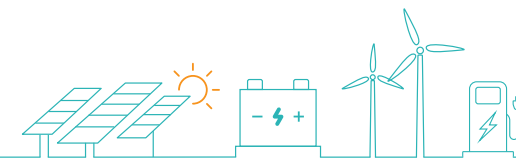
Interface & digital isolation

- Digital isolator (NSI82xx)
- RS485 (NSI83008xE, NCA3176, NSI83086)
- CAN transceiver (NCA1051A, NCA1042B2, NSI1042)

Protection & reference & others

- Reference (NSREF30xx, NSREF31xx)
- Voltage supervisor (NSR7808, NSD7850)

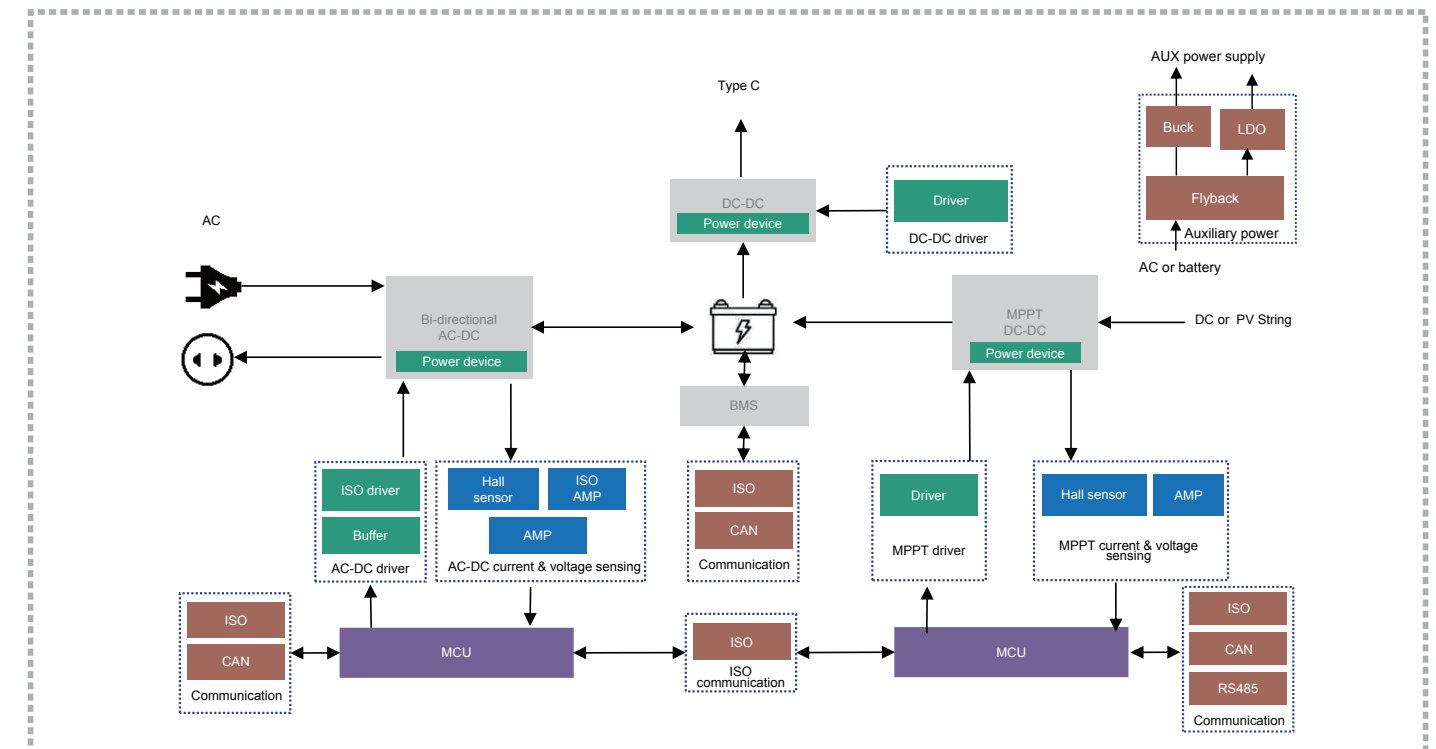
NOVOSENSE Portable Power Station Solution



NOVOSENSE

Portable Power Station

Portable power stations are compact energy storage systems featuring high-energy-density lithium-ion batteries that provide stable AC and DC output. Equipped with versatile interfaces (AC, DC, Type-C, USB, PD), they are compatible with mainstream electronic devices. They can also be paired with solar panels for applications requiring portable power.



MCU

- MCU (NS800RT3025, NS800RT5039)

Gate driver & Buffer

- Isolated single-channel driver (NSI6601, NSI6601M, NSI6601xE, NSI6801, NSI6801E, NSI6801M, NSI6602ME)
- Isolated half bridge driver (NSI6602V)
- Non-isolated driver (NSD1624, NSD1026V, NSD262x)
- Buffer (NCA8244)

Power management

- Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
- Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)
- LDO (NSR31xxx, NSR33xxx, NSR35xxx)

Current & voltage & temperature & humidity sensing

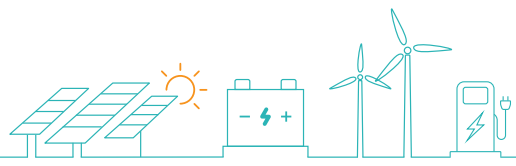
- Hall current sensor (NSM201x, NSM211x)
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311)
- Amplifier (NSOPA9xxx, NSOPA8xxx)
- Temperature & humidity sensor (NST1002, NSHT3x)

Power device

- 650V Super junction MOSFET (NPS0x0N065A, 650V, 37/73/190 mohm)

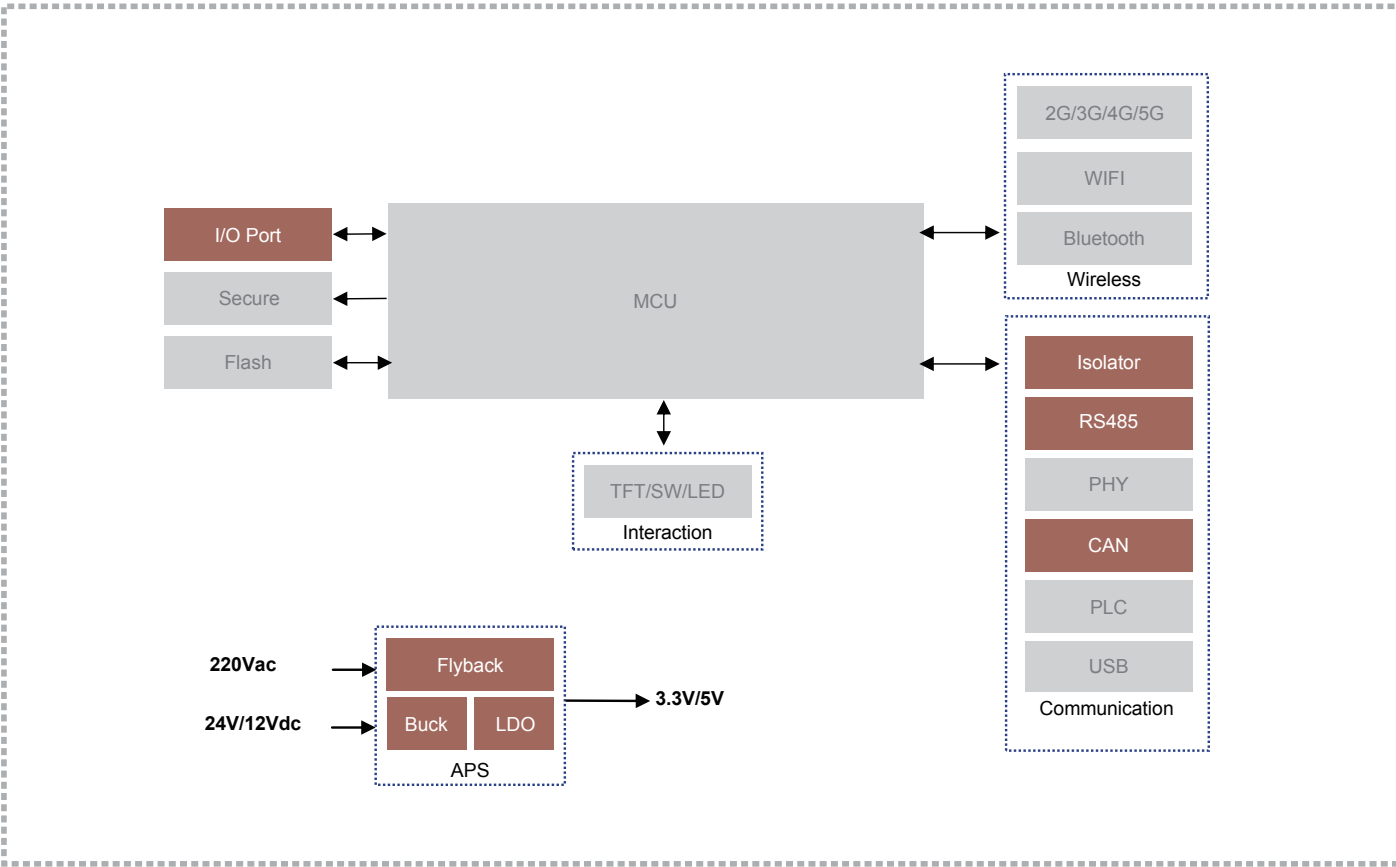
Interface & digital isolation

- Digital isolator (NSI824x)
- RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)
- CAN transceiver (NCA1043(B), NCA1042B, NSI1050, NSI1042)



Energy Management System

Energy Management Systems (EMS) are intelligent platforms that monitor, control, and optimize energy usage across industries, commercial buildings, power grids, and renewable energy sectors. By collecting real-time data, analyzing patterns, and implementing intelligent regulation, EMS enhances efficiency and reduces costs. Leveraging IoT, big data, and AI, they enable load management, energy storage optimization, and demand response, promoting energy savings, emissions reduction, and sustainable development.

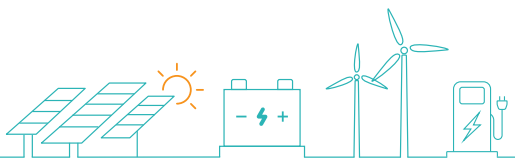


Power management

- Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
- Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)
- LDO (NSR31xxx, NSR33xxx, NSR35xxx)

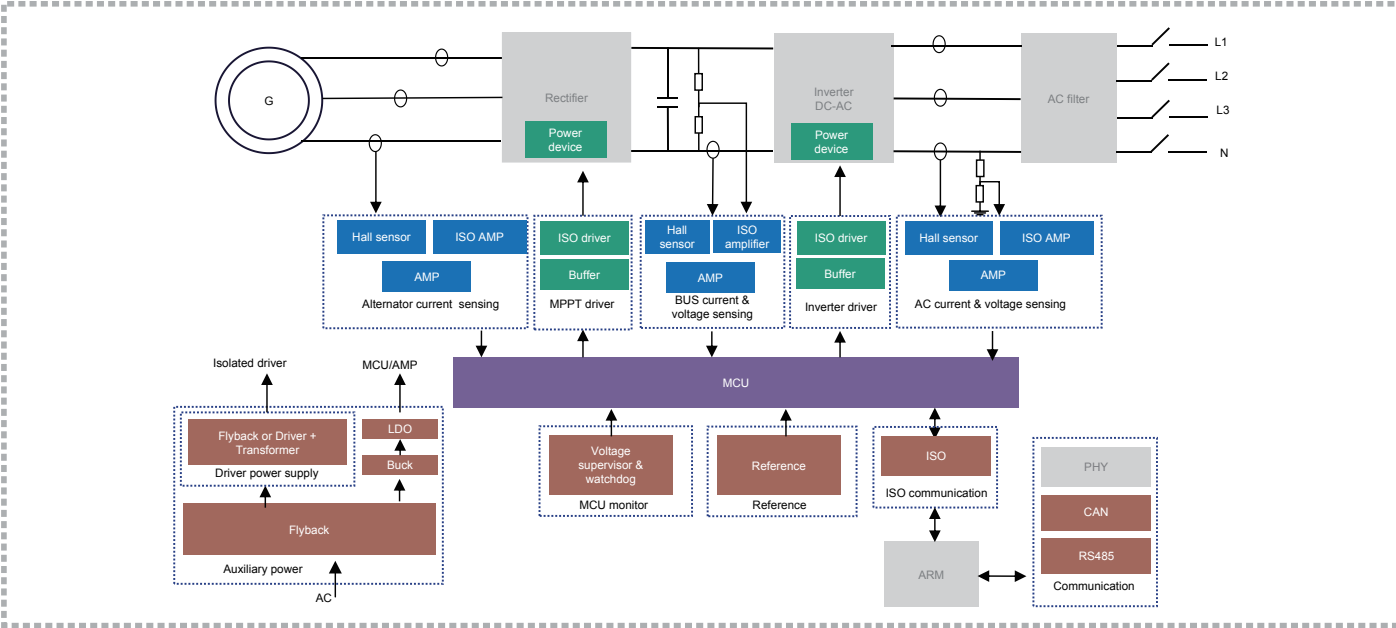
Interface & digital isolation

- Digital isolator (NSI82xx, NIRS21, NIRS31)
- CAN transceiver (NCA1051A, NCA1042B, NCA1044, NSI1050, NSI1042)
- RS485 (NSI83085, NSI83086, NCA3176, NCA3485)
- I/O expander (NCA9555)



Wind Power Converter

A wind power converter is a key component of wind power generation systems, responsible for converting the variable-frequency AC generated by wind turbines into stable grid-compatible electricity. It is mainly categorized into full-power and doubly-fed types, featuring power regulation, grid connection control, and power quality optimization. With advanced control algorithms, wind power converters enhance generation efficiency, adapt to complex operating conditions, and support grid stability. They are widely used in onshore and offshore wind farms, promoting the efficient utilization of renewable energy and the safe operation of power grids.



MCU

- MCU (NS800RT7374, NS800RT7379D, NS800RT7P65, NS800RT7P65D)

Current & voltage & temperature sensing

- Hall current sensor (NSM201x, NSM211x)
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI36xx)
- Amplifier (NSOPA9xxx, NSOPA8xxx)
- Temperature sensing (NST235, NST20, NST1001, NST1002)

Gate driver & Buffer

- Isolated single-channel driver (NSI6601, NSI6601xE, NSI6801, NSI6801E, NSI6611, NSI6711, NSI68515)
- Isolated half bridge driver (NSI6602V, NSI6602ME)
- Buffer (NCA8244)

Power device

- 1200V SiC diode (NPD0x0N120A, 1200V, 20/30/40/50A)
- 1200V SiC MOSFET (NPC0x0N120A, 1200V, 40/60/80mohm)
- 650V Super junction MOSFET (NPS0x0N065A, 650V, 37/73mohm)
- 650V IGBT (NPIOX0N065A, 650V, 30A/50A)

Power management

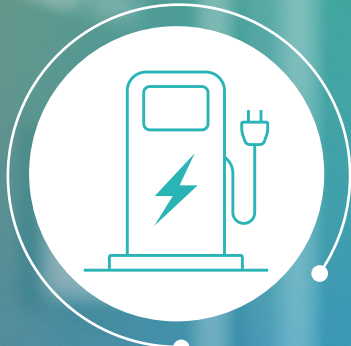
- Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
- Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)
- LDO (NSR31xxx, NSR33xxx, NSR35xxx)

Interface & digital isolation

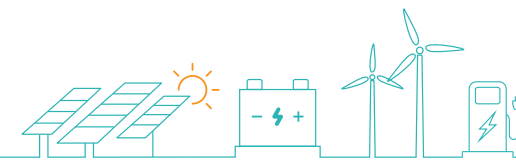
- Digital isolator (NSI82xx)
- RS485 (NSI83008xE, NCA3176, NSI83086)
- CAN transceiver (NCA1051A, NCA1042B2, NSI1042)

Protection & reference & others

- Reference (NSREF30xx, NSREF31xx)
- Voltage supervisor (NSR7808, , NSD7850)

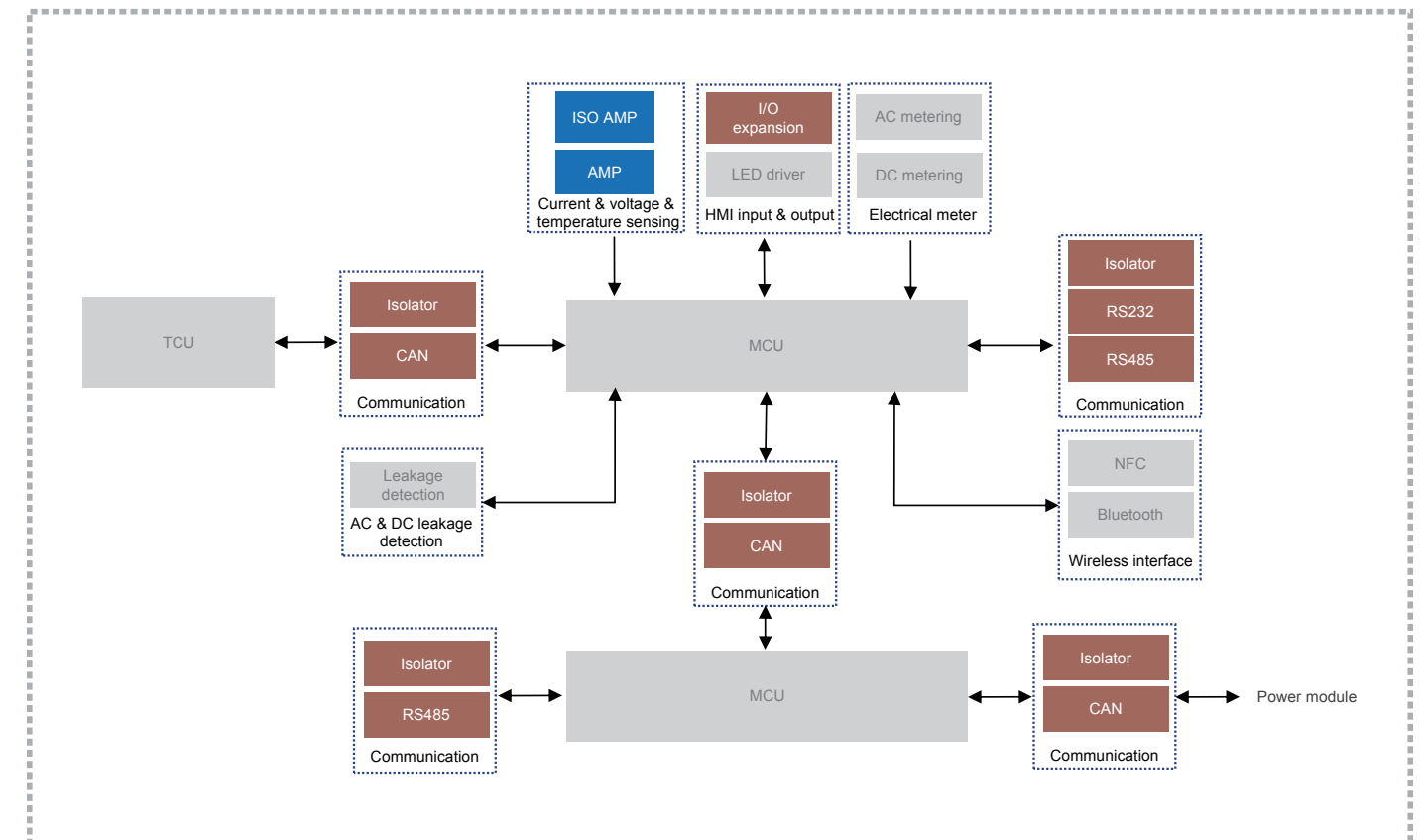


NOVOSENSE EV Charger Solution



Control Panel Solution of DC Charger

The control system is the brain of the DC charger, controlling the operation and data of the entire charger. It manages the charging process, monitors the operating status, and reports any malfunction or damage. It also records usage logs to help maintenance personnel analyze problems and optimize the performance of the charger.



Current & voltage sensing

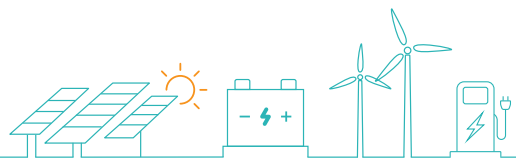
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI36xx)
- Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084)

Interface & digital isolation

- Digital isolator (NSI824x, NIRS31, NIRS21)
- Isolated power (NSIP884x, NSIP894x)
- CAN transceiver (NCA1051A, NCA1042B, NSI1050, NSI1042)
- RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)

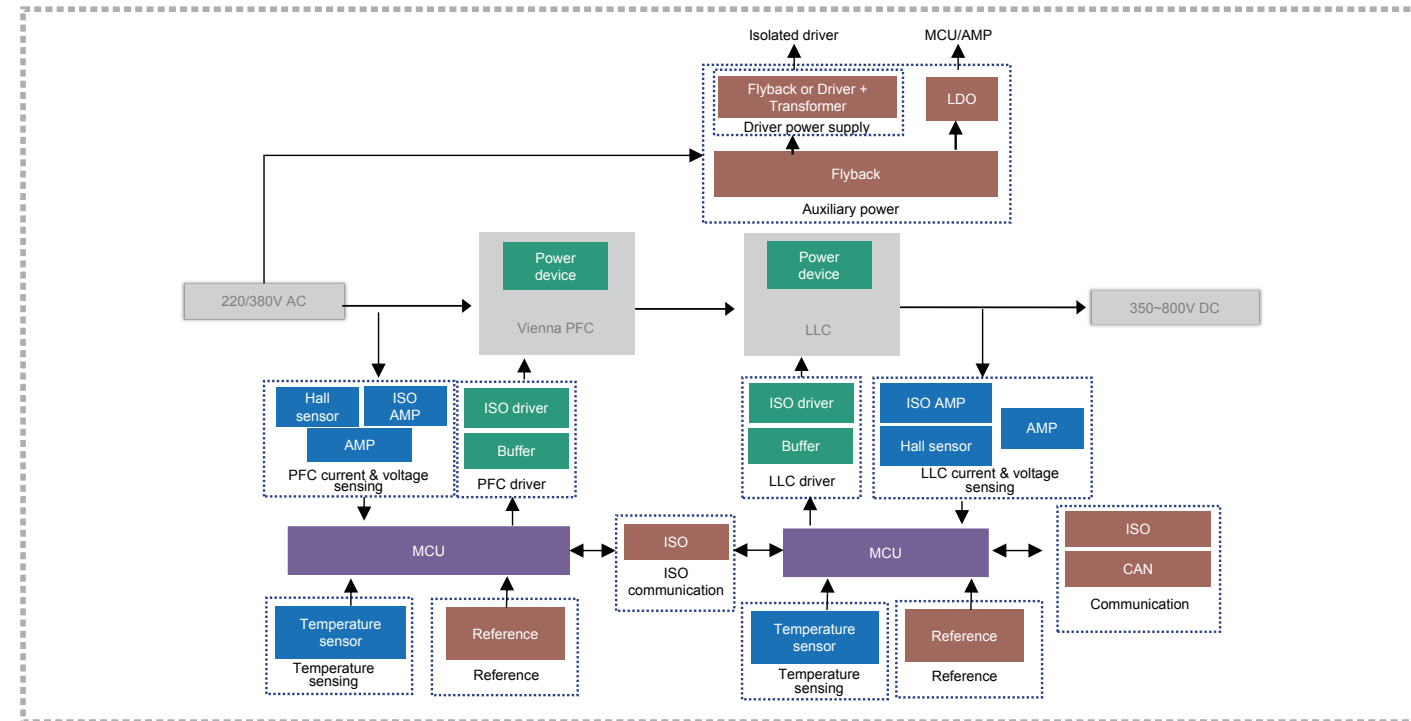
Others

- I/O expander (NCA9555)



Power Module

The main role of the charger power module is to convert the AC utility power to DC power, and at the same time, deliver the specified current and voltage to the automotive battery according to the BMS.



MCU

- MCU (NS800RT5039, NS800RT3025, NS800RT1137)

Gate driver & Buffer

- Isolated single-channel driver (NSI6601, NSI6601M, NSI6601xE, NSI6801, NSI6801M, NSI6801E)
- Non-isolated driver (NSD1026V)
- Buffer (NCA8244)

Power management

- LDO (NSR31xxx, NSR33xxx, NSR35xxx)
- Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)

Current & voltage & temperature sensing

- Hall current sensor (NSM201x, NSM211x, NSM2311)
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI36xx)
- Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084)
- Temperature sensor (NST235, NST20)

Power device

- 1200V family of SiC Diode (NPD0x0N120A, 1200V, 20/30/40/50A)
- 1200V family of SiC MOSFET (NPC0x0N120A, 1200V, 40/60/80mohm)
- 650V family of super junction MOSFET (NPS0x0N065A, 650V, 37 mohm)

Interface & digital isolation

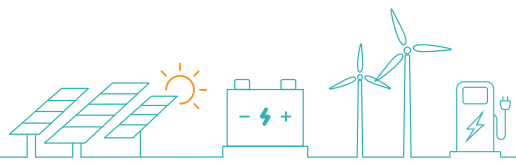
- Digital isolator (NSI824x, NIRS31, NIRS21)
- Isolated power ((NSIP884x, NSIP894x)
- CAN transceiver (NCA1051A, NCA1042B, NSI1050, NSI1042)
- RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)

Reference & others

- Reference (NSREF30xx, NSREF31xx)

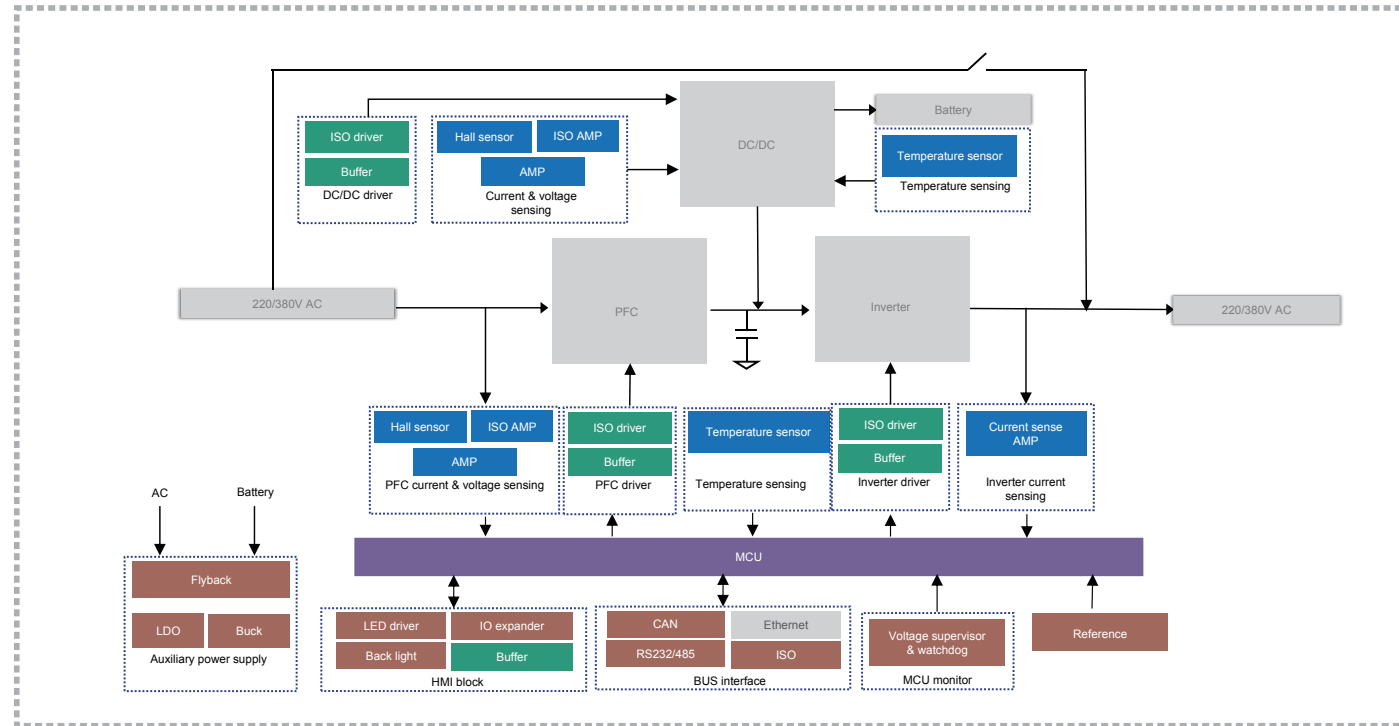


NOVOSENSE Digital Power Supply Solution



UPS

Uninterruptible power systems (UPS) are power conversion systems comprising a rectifier, inverter, and energy storage device. They provide clean AC power and backup during utility power failures, primarily for applications requiring high power quality, such as in finance, data centers, medical, and industrial equipment.



MCU

- MCU (NS800RT5039, NS800RT3025, NS800RT1137, NS800RT7379D)

Gate driver & Buffer

- Isolated single-channel driver (NSI6601, NSI6601M, NSI6601xE, NSI6801, NSI6801E)
- Isolated half bridge driver (NSI6602V)
- Non-isolated driver (NSD1624, NSD1026V)
- Buffer (NCA8244)

Protection & reference & others

- Reference (NSREF30xx, NSREF31xx)
- I/O expander (NCA9555)

Current & voltage & temperature sensing

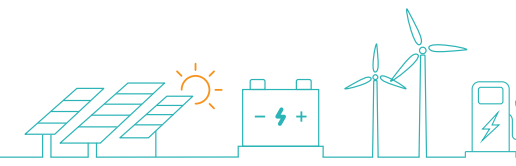
- Hall current sensor (NSM201x, NSM211x, NSM2311)
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI36xx)
- Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084)
- Current sensing (NSCSA21x, NSCSA24x)
- Temperature sensor (NST235, NST20)

Power management

- LDO (NSR31xxx, NSR33xxx, NSR35xxx)
- Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
- Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)
- Voltage supervisor (NSR7808)

Interface & digital isolation

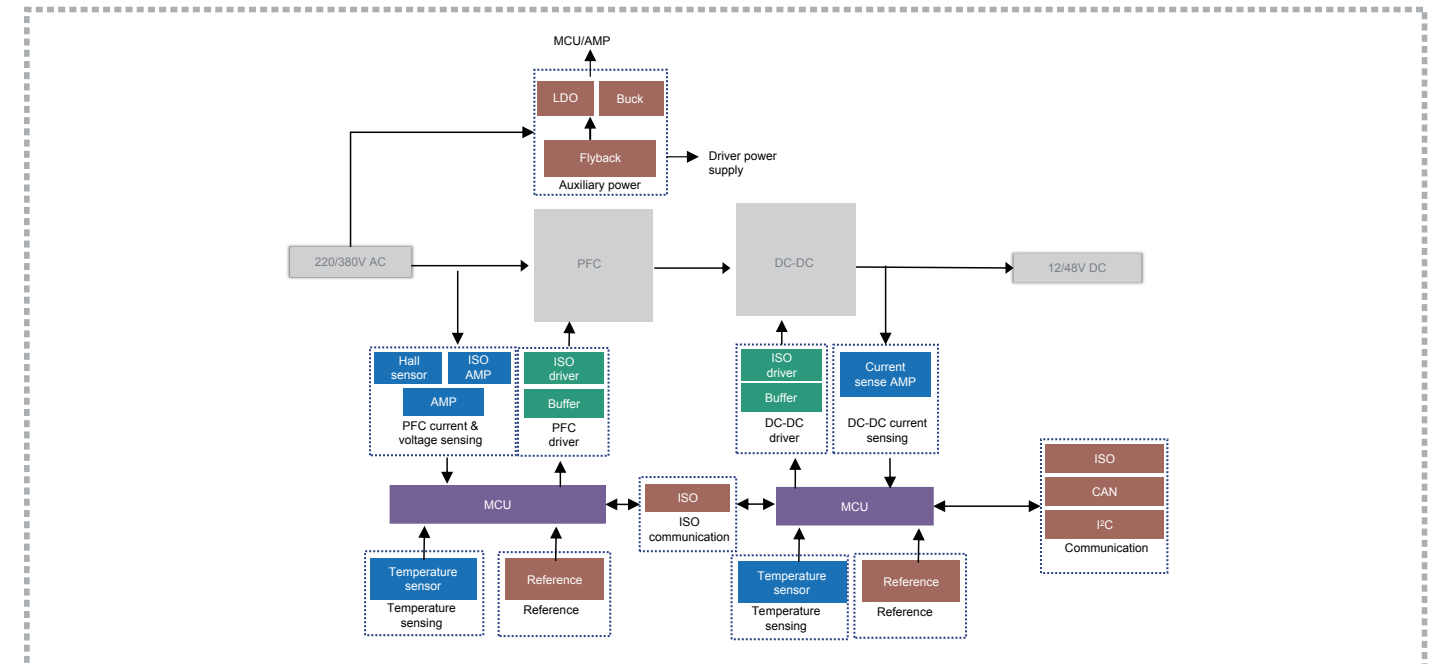
- Digital isolator (NSI822x, NSI823x, NSI824x, NIRS21, NIRS31)
- Isolated power (NSIP884x, NSIP894x)
- CAN transceiver (NSI1042, NSI1050, NCA1051A, NCA1042B)
- RS485 (NSI83085, NSI83086, NCA3485)



AC-DC Power Supply

Communication and Server Power Supply

The AC-DC Power Supply (communication and servers) converts utility AC power to DC power. It usually includes a PFC part and a DC power conversion part.



MCU

- MCU (NS800RT5039, NS800RT3025, NS800RT1137)

Gate driver & Buffer

- Isolated single-channel driver (NSI6601, NSI6601M, NSI6601xE, NSI6801E)
- Isolated half bridge driver (NSI6602V)
- Non-isolated driver (NSD1026V, NSD1624, NSD2621, NSD2622N)
- Buffer (NCA8244)

Protection & reference & others

- Reference (NSREF30xx, NSREF31xx)
- Buffer (NCA8244)
- Voltage supervisor (NSR7808)

Current & voltage & temperature sensing

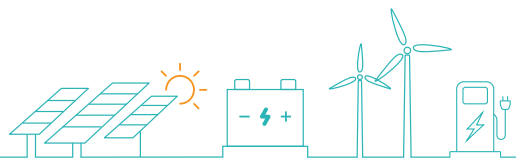
- Hall current sensor (NSM201x, NSM211x, NSM204x)
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI36xx)
- Amplifier (NSOPA9xxx, NSOPA8xxx)
- Current sensing (NSCSA21x, NSCSA24x)
- Temperature sensor (NST235, NST20)

Power management

- LDO (NSR31xxx, NSR33xxx, NSR35xxx)
- Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
- Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)

Interface & digital isolation

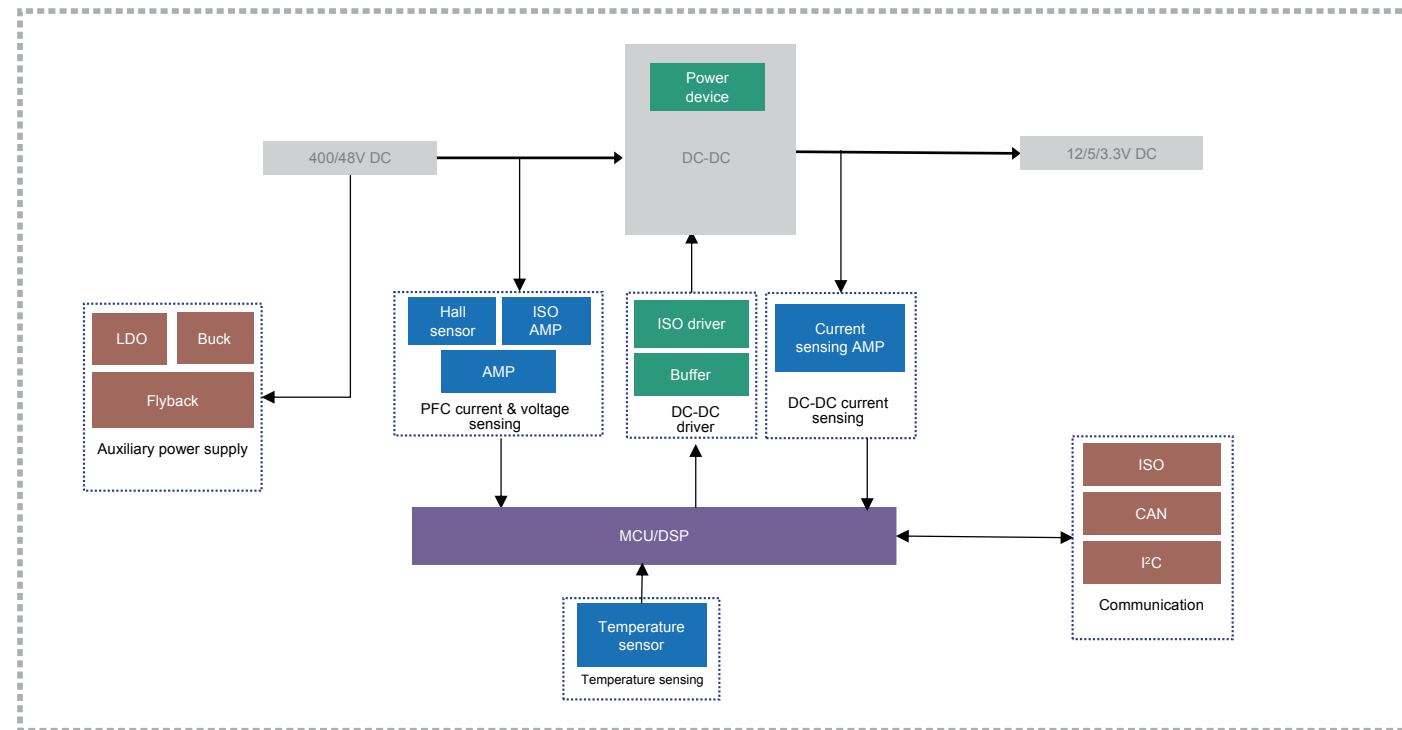
- Digital isolator (NSI822x, NSI823x, NSI824x, NIRS21, NIRS31)
- Digital isolator with integrated power supply (NIRSP31)
- CAN transceiver (NSI1042, NSI1050, NCA1051A, NCA1042B)
- I²C (NSI8200, NSI8100)



DC-DC Power Supply

Industrial Power Supply, Power Module

DC-DC Power Supply converts voltage between DC and DC. The output voltage can be higher or lower than the input, and also it can be inverted.



MCU

- MCU (NS800RT1137, NS800RT3025)

Gate driver & Buffer

- Isolated half bridge driver (NSI6602V, NSI6602ME)
- Non-isolated driver (NSD1026V, NSD1624, NSD2621, NSD2622N)
- Buffer (NCA8244)

Power management

- LDO (NSR31xxx, NSR33xxx, NSR35xxx)
- Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
- Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)

Current & voltage & temperature sensing

- Hall current sensor (NSM201x, NSM211x, NSM2311, NSM204x)
- Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311)
- Amplifier (NSOPA9xxx, NSOPA8xxx)
- Current sensing (NSCSA21x, NSCSA24x)
- Temperature sensor (NST235, NST20)

Power device

- 650V family of super junction MOSFET (NPS0x0N065A, 650V, 37/73/190 mohm)

Interface & digital isolation

- Digital isolator (NSI822x, NSI823x, NSI824x, NIRS21, NIRS31)
- Digital isolator with integrated power supply (NIRSP31)
- CAN transceiver (NSI1042, NSI1050, NCA1051A, NCA1042B)
- I2C (NSI8200, NSI8100)

Robust

Reliable

Keep Learning

Persist in Long-term Value