

Power supply modules

High-voltage DC-DC and AC-DC converter modules



ST's high-voltage DC-DC and AC-DC converter families use a proven circuit architecture and high-efficiency design to give you accurate voltage regulation in a variety of applications.

Based on an ST device, the DC-DC non-isolated and AC-DC isolated modules provide switch-mode constant-voltage generators.

These modules are a cost-effective and space-efficient solution intended for industrial control, home appliances and communication equipment.

DC-DC features

- MTBF 1 000 000 hours (TA = 25 °C)
- Wide range input voltage
- Output voltage precision 5 %
- Typical output voltage: -12 V
- Low standby power losses
- Non-latching overload and short-circuit protection
- RoHS compliant
- No heatsink required
- Operating temperature range: -40 °C to 85 °C

Main applications

- Industrial control
- Home appliances
- Communication equipment

AC-DC features

- MTBF 400 000 hours (TA = 50 °C)
- Wide range input voltage
- Output voltage precision 5 %
- Typical output voltage: 12 V
- Low standby power losses
- Non-latching overload and short circuit protection
- RoHS compliant
- No heatsink required
- Operating temperature range: -40 °C to 85 °C

The output voltage meets the most common requirements in industrial and home-appliance environments, and is compatible with other possible applications such as communication equipment.

The design is based on ST components and is environmentally friendly. ST's modules are highly efficient and respect European norms regarding power consumption, for example standby power losses are below 0.3 W.

ST's modules provide the complete power-supply function offering a switch-mode constant-voltage generator. DC-DC and AC-DC module packages save space on the motherboard to meet tight space constraints.

AC-DC encapsulated modules are marked CE and certified according to EN60950, EN60065, EN55022. More details are available in the specific datasheet.



Step down DC-DC converter modules

Ordering code	Input voltage [VDC]	Output voltage [V]	Output current [A]	Efficiency [%]	Package / connections	Notes
SPDC400FC12M0.35	100 - 370	-12	0.35	80	Open frame / comb	Not isolated

Step down AC-DC converter modules

Ordering code	Input voltage [VDC]	Output voltage [V]	Output current [A]	Efficiency [%]	Package / connections	Notes
SPAC265BC12P0.30	85 - 264	12	0.30	80	Encapsulated / comb	Isolated
SPAC265FC12P0.30	85 - 264	12	0.30	80	Open frame / comb	Isolated



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