

Most Compact Design in Class Operation up to 1500V DC-Link

Coated PV Version Available



SKYPER[®] 12 Core

1.3W & 20A_{peak} per channel

Up to 100kHz

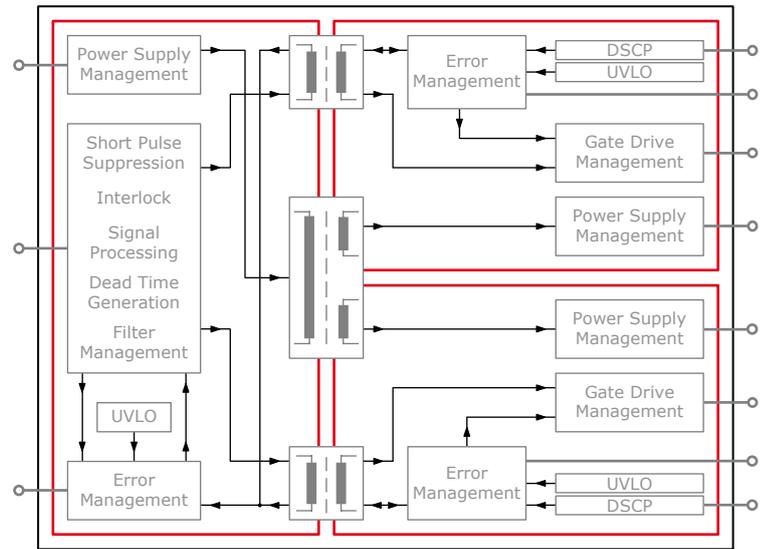


SKYPER 12 Core portfolio

Driver type	P _{out} per channel	Q _{out} per channel	I _{out(peak)}	f _{max}	V _{DC}	V _{isol}	No.
SKYPER 12 R	1.3W	20μC	20A	100kHz	1200V	5kV	L5069901
SKYPER 12 PV R (coated)	1.3W	20μC	20A	100kHz	1500V	5kV	L5070901

Small and strong

- 20A peak output current capability per channel
- Extended isolation transformer design for PV requirements
- Latest ASIC chipset for up to 12 million hours MTBF at full load
- Short circuit SoftOff operation mode
- Dynamic short circuit detection (DSCP)
- Undervoltage lockout on primary and secondary sides (UVLO)



Fast design: Evaluation boards are available for many standard modules

- Application samples for SEMiX 5 NPC/TNPC Press-Fit modules
- Safe semiconductor turn-off in any short circuit condition
- Reference circuits for SEMiX5 modules and SKYPER12 core drivers for up to 1500V



Meets PV application requirements

- Varnished with UL registered conformal coating material
- Extended max DC-Link voltage of up to 1500V
- Compliant with DIN EN 62109-1 and VDE 0126-14-1:2011-04



Key features

Operation up to 1500V DC-link

Dynamic short circuit detection (DSCP)

Soft short circuit turn-off with dedicated output stage (SoftOff)

Selectable input filter time

dV/dt robust pulse transmission for strong EMC immunity

Safe undervoltage turn-off with prim. and sec. voltage monitoring (UVLO)

Isolated error input for e.g. overtemperature or overvoltage lockout

Secondary side isolated power supply included

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