SPAR POWER TECHNOLOGIES INC.

www.sparpwr.com

LVC3-50/60

Power System Converters

AC/DC and

DC/DC

Made in Canada.

ABS

C ETL LISTED US

Intertek

General description

LVC3-50/60 is a high performance AC/DC and DC/DC converter which controls bidirectional power flow between the AC network or DC bus and DC energy storage system. It is specifically designed to use with standard rechargeable batteries and Super capacitor-based Energy Storage System (SCESS). It meets all requirements of IEEE-519 for harmonic compliant, THD or IHD.

LVC3-50/60 offers various communication protocol for real time data exchange of information between the battery management System (BMS) and Energy managements system (EMS) on the plant network. (TCP/IP Ethernet, CAN, mod-bus and RS485 Communications).

Technical specifications

Power range

- 3kW to 12MW Voltage range from Input 208-690Vac, 3ph, 50/60 Hz. Output: 240 to 2000VDC,

Power Bridge Topology

- Multilevel IGBT with fault tolerance*

Environmental conditions

- 0^0 to 45^0C (32^0 to 113^0F) ambient temperature
- -40^0 to 70^0C (-40^0 to 154^0F) storage temperature
- 0 to 90% relative humidity (non-condensing)
- Up to 1000m (3300ft) altitude above sea level

Switching Frequency (programmable)

- Up to 16KHz

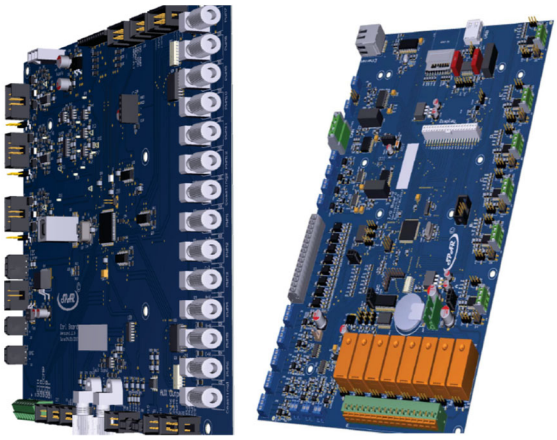
Protections

- Over current
- Ground fault
- Under/Over voltage
- Over temperature

System features

- 4.3 Inch bilingual colour touch panel (7 and 12 inches optional) for programming and drive status and fault monitoring.

- User definable charging/Discharging Current rates
- 8 Digital inputs / 8 Digital outputs(programmable)
- 2 Analog Inputs / 2 Analog Outputs (programmable)



Optional features

- NEMA 1 or NEMA 12 enclosure
- Incoming fused disconnect/Breaker
- Air or Water cooled

* Optional **Fault Tolerance: System will continue to operate if one power device fails in each phase without reduced performance.**

Note: Specifications may change without notice