



LVC3- Residential Energy Storage Inverters 5kW to 10kW

Split-Phase hybrid inverter with multiple energy inputs

Certified to; UL-1741SA all options, UL1699B, CSA 22.2
With grid compliant Standards: IEEE 1547, IEEE 2030.5, Hawaii rule 14H, Rule 21 phase I,II,III

Key strengths

- Plug & play.
- Capable of supporting 100% unbalanced loads.
- 3 phase 208Vac & parallel function available.
support storing
- 100A pass through.
- AC couple to retrofit existing solar system (on-grid & off-grid).
- Grid & diesel Generator separately connected,
 - Support energy storage from all generators and utility.

**PV Inputs**

Model	LVC-5	LVC-6	LVC-7	LVC-8	LVC-10
Max. DC input power (kW)	7.5	9	12	12	15
No. of MPPT trackers	4				
MPPT voltage range (V)	120~500				
MAX.DC input voltage (V)	500				
MAX. input current (A)	14				
MAX. short circuit current (A)	22				

Battery input

Nominal voltage (V)	48				
MAX. charging/discharging current (A)	120/120	135/135	190/190	190/190	190/210
Battery voltage range (V)	40~60				
Battery type	Lithium /Lead-acid				
Charging strategy for Li-Ion battery	Self-adaption to BMS				

AC output (back-up)

Nominal. apparent power (kVA)	5	6	7.6	8	10
Max. apparent power (kVA)	5.5	6.6	8.4	8.8	11
Nominal output voltage L-N/L1-L2 (V)	120/240				
Nominal output frequency (Hz)	60				
Automatic switchover time (ms)	<20				
Output power factor	0.8leading~0.8lagging				
Output Voltage HD	<2%				

Protection

Grounding detection	Yes
Arc fault protection	Yes
Island protection	Yes
Battery reverse polarity	Yes
Insulation resistor detection	Yes
Residual current monitoring unit	Yes
Output over current protection	Yes
Back-up output short protection	Yes
Output over voltage protection	Yes
Output under voltage protection	Yes

General data

MPPT efficiency	99.9%
Europe efficiency (PV)	96.5%
PV to grid efficiency (PV)	97.2%
Battery to load efficiency	95.2%
PV to battery charging efficiency	96.1%
Grid to battery charging efficiency	95.0%
Output conduit (mm)	25.4
PV input conduit (mm)	25.4
BAT input conduit (mm)	35.4
Operating temperature range (°C)	-25~+60
Relative humidity	0~95%
Operating altitude	0~4,000 m (Derating above 2,000m altitude)
Ingress protection	IP65/NEMA 3R
Built-in breaker	Optional
Weight (kg)	48kg (50kg with breaker)
Dimensions W*H*D (mm)	450 x 820 x 240
Cooling	FAN cooling
Noise emission (dB)	38
Display	LCD,Touch panel (optional)
Communication with BMS/Meter/EMS	RS485, CAN
Supported communication interface	RS485, WLAN, 4G (optional)
Self-consumption	<25W
Safety	UL-1741SA all options, UL1699B, CSA 22.2
EMC	FCC part 15 class B
Support diesel generator	YES
Grid connection standards	IEEE 1547, IEEE 2030.5, Hawaii rule 14H, Rule 21 phase I,II,III

Other data

Peak power (off grid)	105%,60s / 110%,30s / 120%,10s / 150%,20ms
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