

ECPC 100-US



LEADING - EDGE TECHNOLOGY

Overview

Large capacity all-in-one hybrid inverter for commercial application, supporting up to 600kW system capacity

Features



All-in-one hybrid inverter



Seamless on/off grid transfer



Programmable working mode



Supports remote control of DG

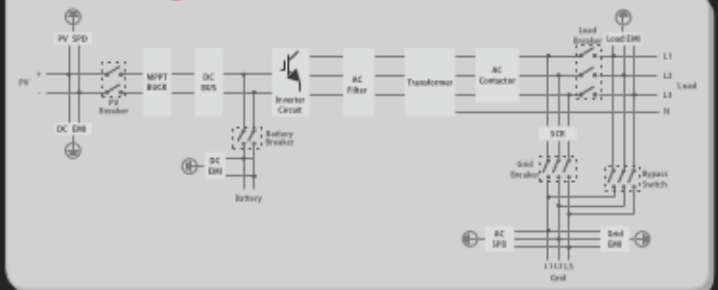


Touchscreen LCD



Quadruple capacity by paralleling 4 units

Block Diagram



ECPC 100-US Datasheet

AC (Grid-connected)

Apparent power: 110kVA
Rated power: 100kW
Rated voltage: 480V
Rated current: 304A 289A 278A 262A 241A
Voltage range: 171-209V 180-220V 187-229V 198-242V 216-264V
Rated frequency: 50/60Hz
Frequency range: 45-55/55-65 Hz
THDI: <3%
PF: 0.8lagging~0.8leading
AC connection: 3/N/PE
AC input: 140kVA145kVA150kVA 150kVA 150kVA

AC (Off-grid)

Apparent power: 110kVA
Rated power: 100kW
Rated voltage: 480V
Rated current: 304A 289A 278A 262A 241A
THDU: $\leq 2\%$ linear
Rated frequency: 50/60Hz
Overload capability: 110%-10 mins 120% - 1 min

DC(Battery and PV)

Max. PV open-circuit voltage: 1000V DC
Max. PV power: 150kWp
PV MPPT voltage range: 480V - 800V DC
Battery voltage range at Max. charge power: 500V-600V
Battery voltage range: 352-600V
Max. charge power: 150kW
Max. discharge power: 110kW
Max. charge current: 300A
Max. discharge current: 313A

General Information

Protection degree: IP20
Noise emission: <65dB(A)@1m
Operating temperature: -25 °C ~ +55 °C
Cooling: Forced-air
Relative humidity: 0-95% non-condensing
Maximum altitude: 6000m (derate over 3000m)
Dimension (W/H/D): 1200/1900/800mm
Weight: 948 kg
Build-in transformer: Yes
Transfer between on/off grid: Automatic ≤ 10 ms
Standby consumption: <30W
Certificate: UL-1741

Communication

Display: Touch screen
Communication: RS485/CAN

**Battery voltage is determined by the following equation:*

$$V_{min} = 352 \times V_n/V_1, V_{Max} = (V_{mpp} - 100) \times V_n/V_2, V_{Max} < 600VDC$$

V1 is battery cell discharge cut-off voltage, V2 is battery cell boost charge voltage, Vn is battery cell nominal voltage