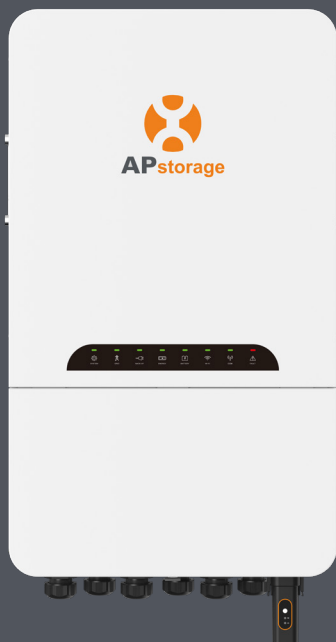




ELT Series PCS

3-phase Low Voltage
Battery Inverter
for Residential Storage

ELT-8-220

Introduction

APstorage introduces its 1st generation of smart Power Conversion Systems with the ELT series products, the three-phase AC coupled Low Voltage battery charger solution for residential PV applications.

With automatic energy management features based on intelligent software and integrated monitoring, system owners can choose between multiple energy control modes including back-up power supply, self-consumption, peak valley time and peak-shaving modes to secure critical loads during power outages, maximize energy savings and optimize electricity bills.

Features

Safety

- ▶ Ingress protection IP65
- ▶ 48V low battery voltage input
- ▶ Intelligent charging technology, protecting battery life
- ▶ High and low voltage isolation topologies, ensuring personal safety

Flexible

- ▶ Compatible with multiple battery brands
- ▶ Provide dedicated interface for connecting generator
- ▶ Support both on-grid & off-grid PV function
- ▶ AC-Coupled solution for new or existing installations

Intelligent

- ▶ Support 100% three-phase unbalanced output
- ▶ UPS-level switching time <10ms
- ▶ Innovative multiple energy control modes: Backup power supply, Self-consumption, Peak and valley, and Peak shaving
- ▶ AI mode allows users to take advantage of dynamic electricity tariffs and optimize their savings
- ▶ 24-hour intelligent energy management system
- ▶ Intelligent operation and maintenance platform with EMA

Performance

- ▶ Nominal power rating up to 8000VA
- ▶ Peak backup power up to 12000VA
- ▶ Max efficiency up to 96.5%

Datasheet | ELT Series PCS

Model

ELT-8-220

General Specifications

Dimensions W/H/D	474mm × 818mm × 275mm
Weight	44.5kg
Maximum Efficiency	96.5%
Operating Ambient Temperature Range	-25°C-65°C, >45°C derating
Storage Temperature Range	-40°C-85°C
Ingress Protection	IP65
Noise	< 40dB ⁽¹⁾
Relative Humidity	4%-100%
Cooling	Smart cooling
Communication Ports	WIFI/Bluetooth/RS485/CAN
Compliance	ABNT NBR 16149:2013, ABNT NBR 16150, Portaria nº 140 de 21 de março de 2022
Warranty	10 years

Battery Input/Output Data

DC Battery Input Voltage	40-60VDC
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
Charging Curve	3 Stages / Equalization
Max Continuous Charge Current	180A
Max Continuous Discharge Current	180A

AC Input/Output Data (On-grid)

Max. Continuous Output Power	8000VA
Max. Continuous Output Current	21A
Max. Continuous Current From Utility Grid	42A
Nominal Output Voltage	127V, 3L/N/PE
EPS Switch Time	10ms
Nominal Output Frequency/Range	60Hz/57.4Hz-62.6Hz
Output Power Factor	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)
THD	<3%
Grid Connection	Three-phase

AC Output Data (Backup)

Max. Output Apparent Power	8000VA
Peak Output Apparent Power	12000VA(10s)
Max. Output Current	21A
Nominal Output Voltage	127V, 3L/N/PE
Nominal Output Frequency	60Hz

AC Input Data (Off-Grid Input/Gen)

Max. Input Apparent Power	8000VA
Peak Input Apparent Power	12000VA(10s)
Max. Input Current	21A
Nominal Input Voltage	127V, 3L/N/PE
Nominal Input Frequency	60Hz

(1) To keep the PCS noise below 40dB, the ambient temperature must be below 40°C. This data was tested at a distance of 1m under typical conditions in the APstorage laboratory.

© All Rights Reserved

Specifications subject to change without notice please ensure you are using the most recent update found at web : latam.APsystems.com/pt-br

APsystems Brazil

Add: 7th Floor, No. 1041, Avenue Presidente Juscelino Kubitschek de Oliveira, São José do Rio Preto, São Paulo, Brazil

Email: info.latam@APsystems.com

Web: latam.APsystems.com/pt-br