

Powervortex 3700TL

Next Generation PV and Hybrid Inverter
Most Affordable Solar Battery Storage Solution



① Solar inverter (storage ready)



① SolDate 3700TL PV inverter

The PV inverter converts the DC power produced by PV modules into AC power. The electricity is then primarily used by the loads in the household, only excess power is fed into the utility grid.

② Battery manager



② BM024 battery manager

In combination with the batteries, this battery manager facilitates the storage of solar power and optimizes self-use.

③ Lithium-ion battery



③ 4.8kWh Lithium battery packs

Lithium battery system stores the energy generated from solar energy and increases self-use from 30% to 70%; 2.4kWh battery modular design, 2 modules with 4.8kWh in this system.

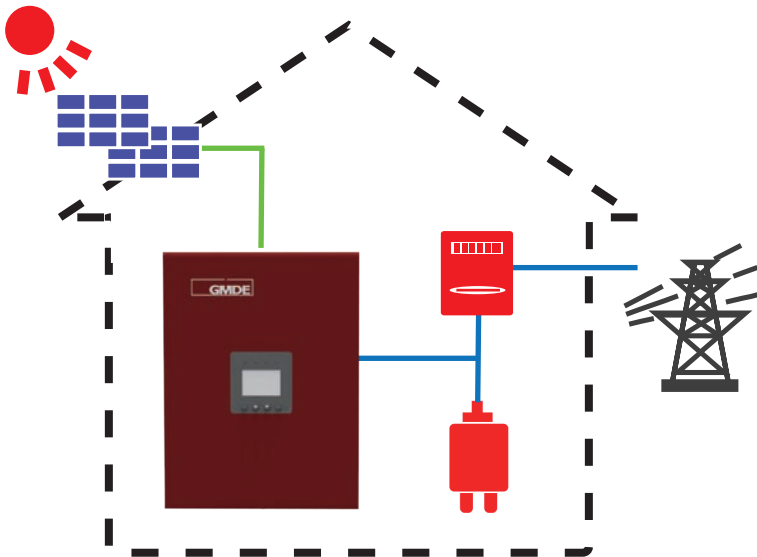
④ Energy Meter

④ ADL100-E/C energy meter

Adopt the 1-phase bi-directional energy meter for communication, and hybrid inverter controls when to charge/discharge according to the data from the meter.

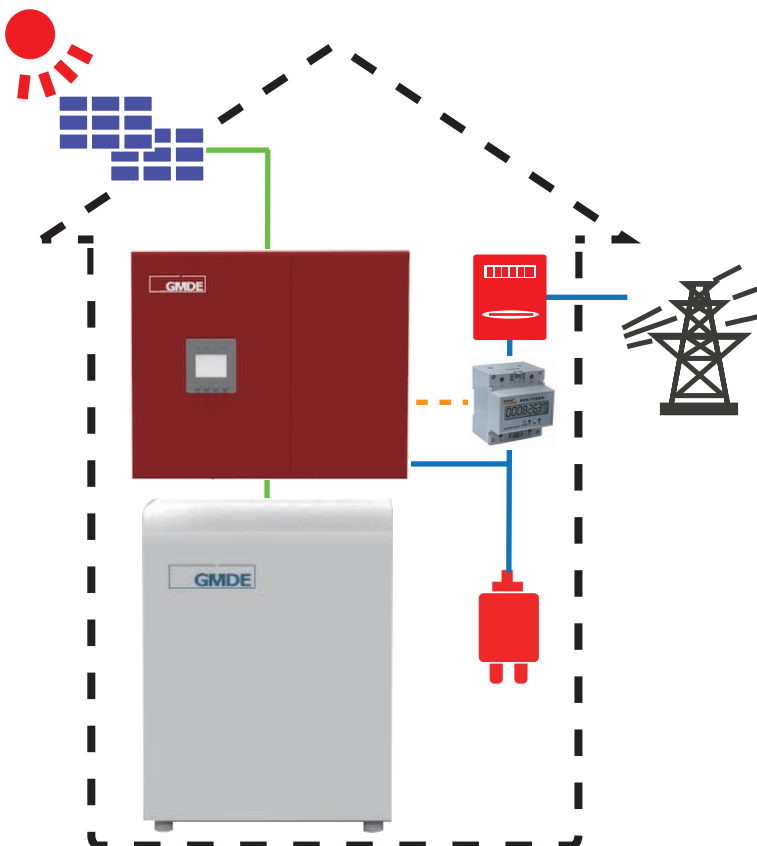
- ✓ Competitive price with full functions
- ✓ Plug & play , easy installation
- ✓ Use your solar energy at any time
- ✓ Protect your family from power outages

1. Standard PV System



The standard PV system converts the solar energy into electricity, supplying to the customer load or feeding into the grid. It makes you independent from the electricity suppliers and help you acquire Feed-in tariff from the Government.

2. PV Storage System with Backup



Lithium battery system stores the energy generated from solar energy. Our Powervortex battery storage system optimizes self-use up to 70% and shifts the energy use from peak to off-peak/shoulder making the clients more independent on energy use and saving energy bill for them largely. Integrated backup function protects your family from power outages.

PV Inverter (Storage ready)		SolDate 3700TL
DC Input		
Max. Input Power		3700 W
Max. DC Voltage		550 V
MPPT Voltage Range		125-530 V
MPP tracker		2
Max. Input Current		12 A / 12 A
AC Output		
Max. Output Power (W)		3600 W
Output voltage / Frequency (On-grid)	230V/50Hz rated, 180-276V/47.5-51.5Hz (varying with different country regulations)	
Rated Output voltage / Frequency (Off-grid)	230Vac, 50Hz	
Max. AC current	16 A	
Power outages	Auto-switching to backup power after approx. 5 sec.	
Other Parameters		
IP Protection class	IP20 (Indoor)	
Dimension (WxHxD)	500mm x 380mm x 150mm	
Weight	25 kg	
DC switch	Optional	
Cooling	Forced air cooling	
Battery Manager		BM024
Rated power	2400 W	
Operation voltage range	40-58 V	
Max. charging current	50 A	
Max. discharging current	50 A	
Dimension (WxHxD)	500mm x 280mm x 150mm	
Weight	10 kg	
Battery Packs		4.8kWh Lithium-ion battery
Battery Capacity	2*2.4 kWh battery module (extendable)	
Usable Capacity	3.84@4.8 kWh	
Packs Weight	80 kg	
Dimension (WxHxD)	555mm x 750mm x 320mm	
System		
Certification	G83(UK); VDE-AR-N 4105(DE); AS4777(AUS) VDE-0126-1-1	
Interface	Energy management unit integrated/LCD display /RS485 communication	
Warranty	5-year standard, 7-year extendable	
Operating Temperature Range	0 °C to +45 °C	

All-in-one Solution

- ✓Flexible system - "Connect&Grow": With SolDate 3700TL installed, clients can easily upgrade their PV systems into storage systems later
- ✓Although with storage-ready interfaces integrated, our PV inverter is still cost-competitive even comparing with the standard PV inverters on the market
- ✓SolDate 3700TL PV inverter with an integrated battery and energy management system. You only need to add solar modules to have a complete solution
- ✓Integrated backup function protects your family from power outages
- ✓Fully certified with VDE AR-N4105(DE), G83/2(UK), AS4777(AUS) etc.

System Options

Powervortex 3700TL	Master	Slave
7" Touchscreen EMS	No	5U Cabinet-mounted
Lead-carbon battery packs [kWh]	Optional, 9.6/14.4	Optional
Lithium-ion battery packs [kWh]	Optional, 2.4/4.8/7.2	Optional
Energy meter	Yes, ADL 100-E/C	Optional

Feedback

Leading 3-ph energy storage inverter supplier in German market

Some feedback from market:

- Known as a company with innovative team and high quality products, GMDE is one of the 3 companies awarded with the "TÜV Rheinland Star Prize of PV Energy Storage Inverter" at the "Quality China 2015" PV Ceremony
- A German client that has used both A and GMDE inverters, said that after replacing battery inverter from A with GMDE's GEatom 306KTL, system efficiency raises from 58% to over 80%
- Clients who have used inverter from another leading European inverter company B and GMDE Powervortex 306KTL hybrid inverters told GMDE that our inverters have better charging/discharging performance and compatibility

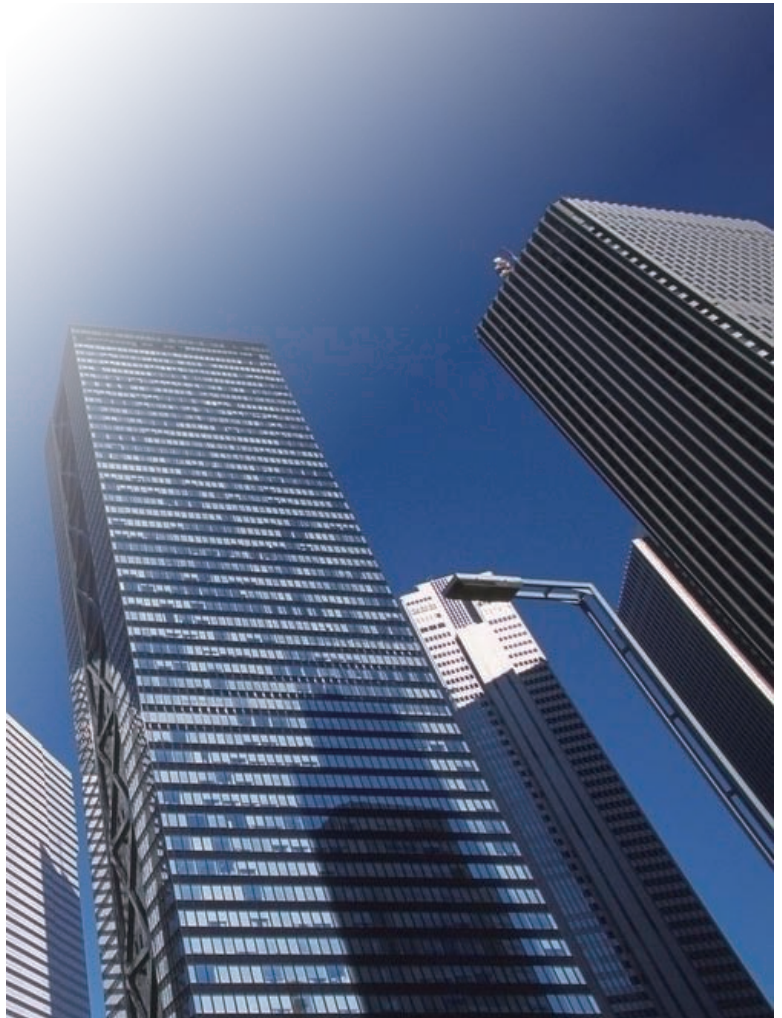
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Introduction

Global Mainstream Dynamic Energy Technology Ltd. (GMDE) mainly focuses on the development, manufacture and sales of high-efficient, cost-effective and differential energy storage inverters. We strive to provide highly reliable and efficient green energy solution worldwide, maximizing the value for our customers.

Contact

Room 604-605, Tongpu Road No.1220,
Putuo District, Shanghai 200333,
P.R. China
TEL: +86 021 60710809-808
FAX: +86 021 61730300
E-mail: sales@global-mde.com



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visit www.global-mde.com**