

COMMERCIAL ENERGY STORAGE



Hybrid Inverter

BD30KTR / BD50KTR / BD100KTR / BD120KTR / BD150KTR

Energy storage converter

BD50KTR-T / BD100KTR-T / BD250KTR-T / BD500KTR-T / BD500KTR / BD630KTR



On/Off Grid Switching



Multiple
Batteries Connection



EMS



AC/DC Dual
Power Backup

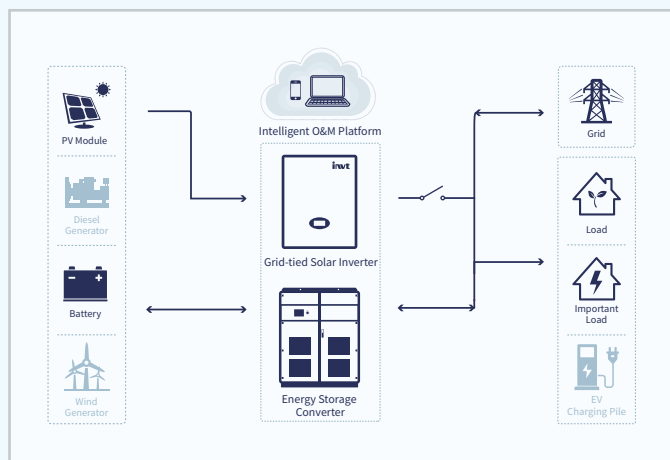


RS485/Can
Communication

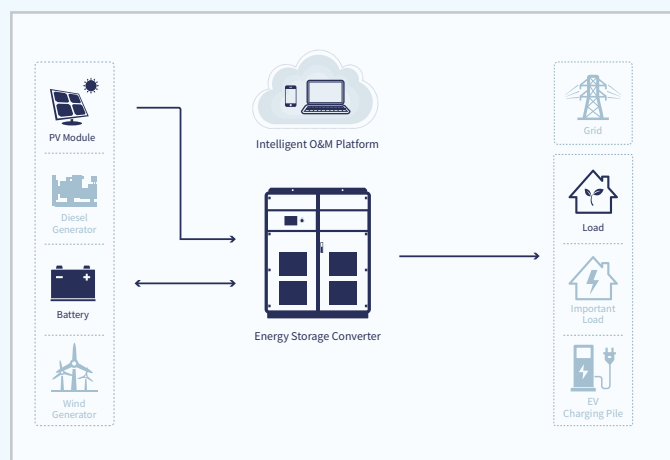


Off-grid Black Start

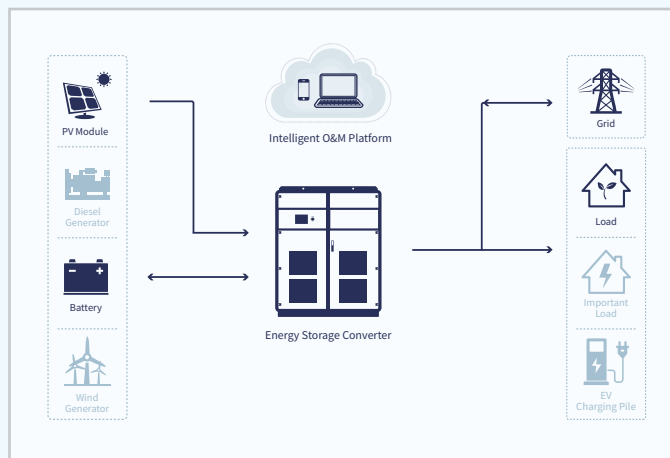
Solution



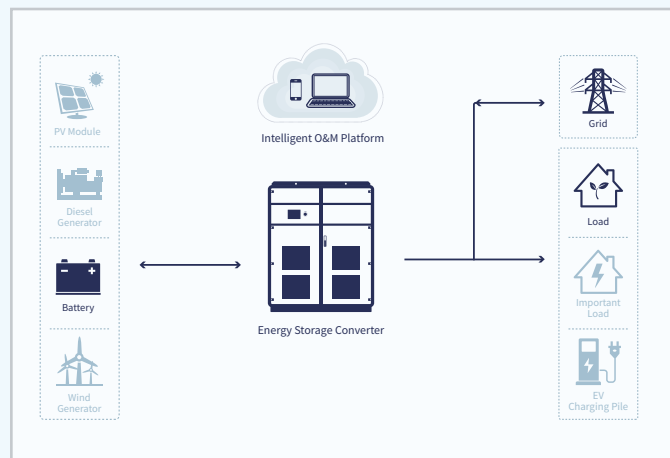
• Grid-tied + Energy Storage



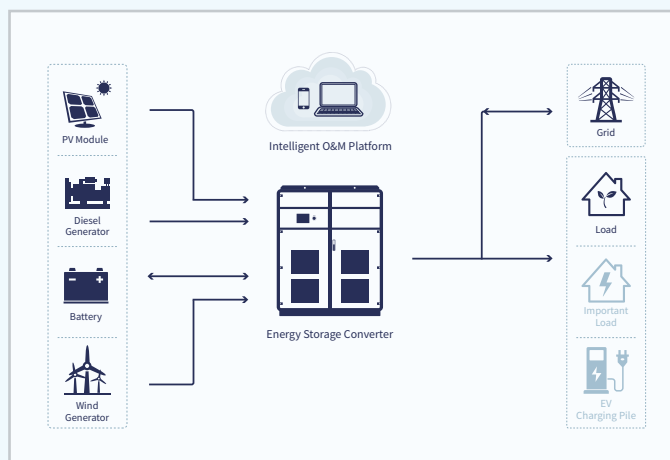
• PCS(Large Off-grid)



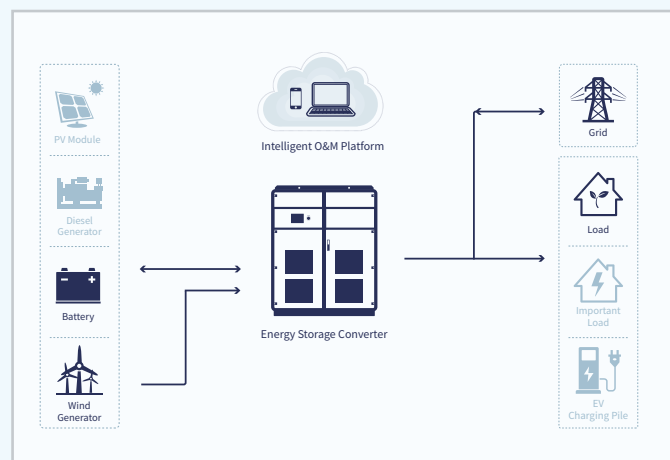
• Battery Aging Source / ATE Testing Equipment Power Source / PV Storage / PV+PCS



• User Side Capacity Expansion

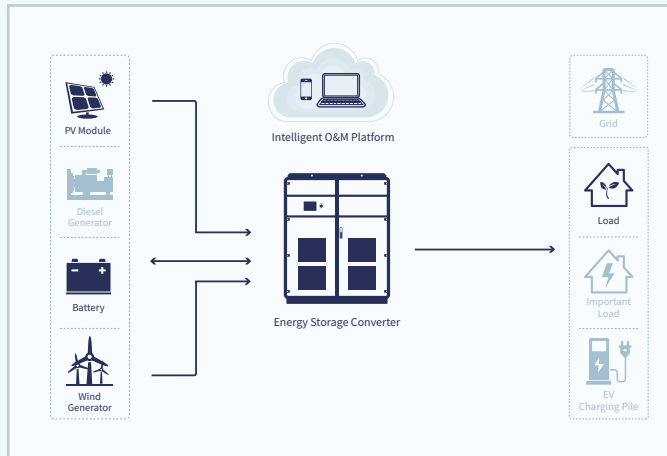


• Smart Micro-grid

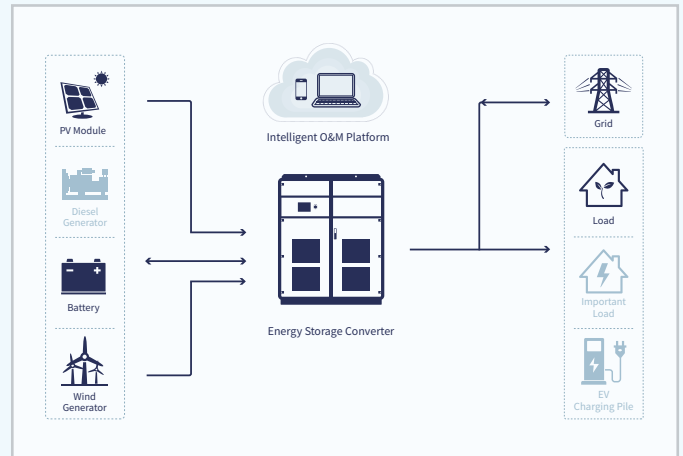


• Wind Storage System

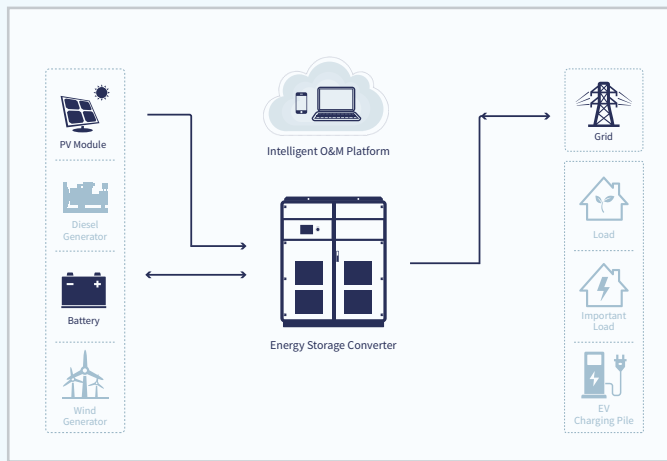
Solution



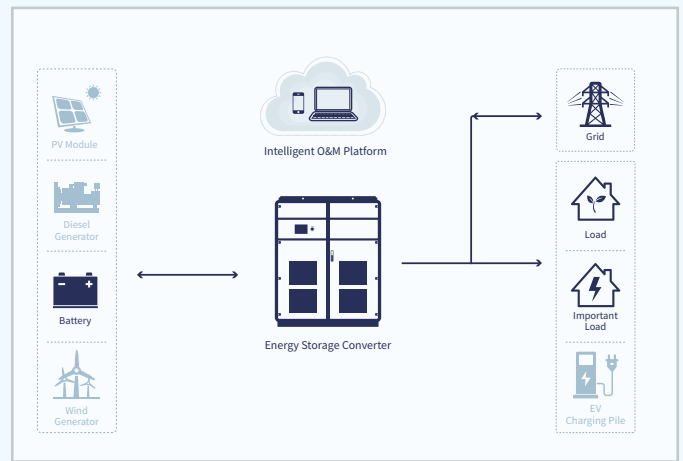
• Voltage Source of Micro-grid



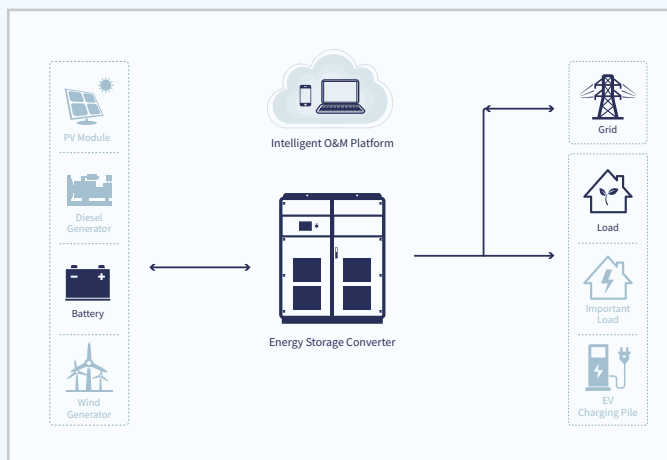
• Controller of Micro-grid



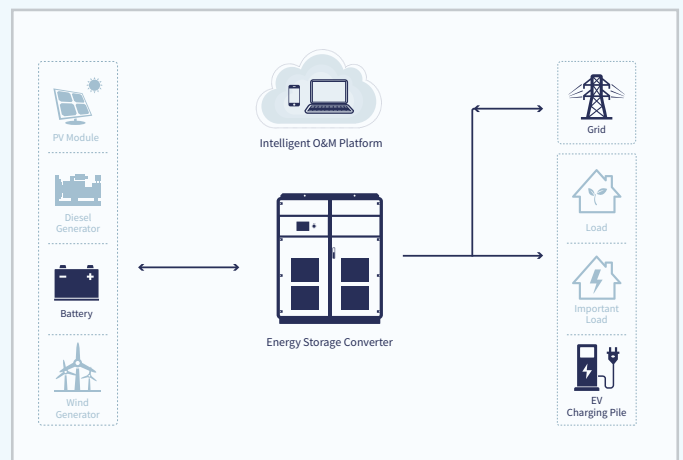
• Peak/Frequency Modulation / APF, SVG (Power Quality Improvement)



• High Power Off-grid Inverter (PCS+ Transformer) / Emergency Power

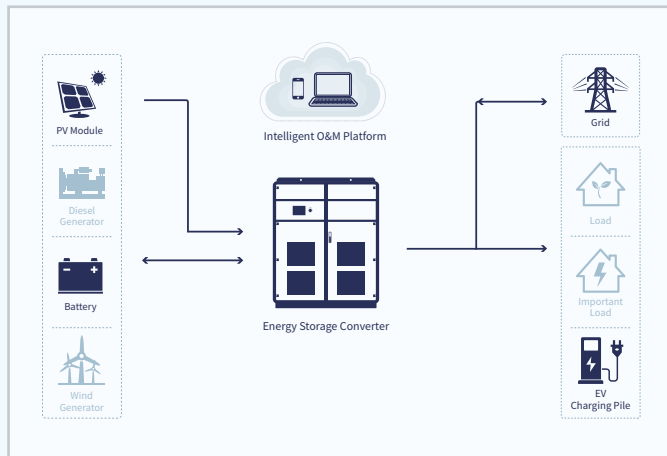


• Commercial Energy Storage

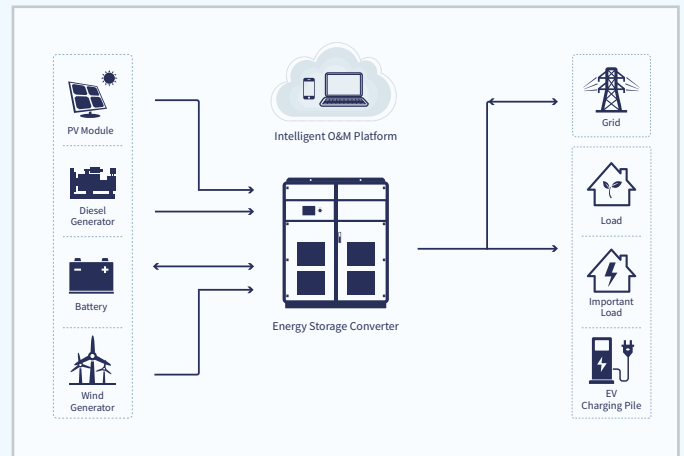


• PCS+Charging Pile

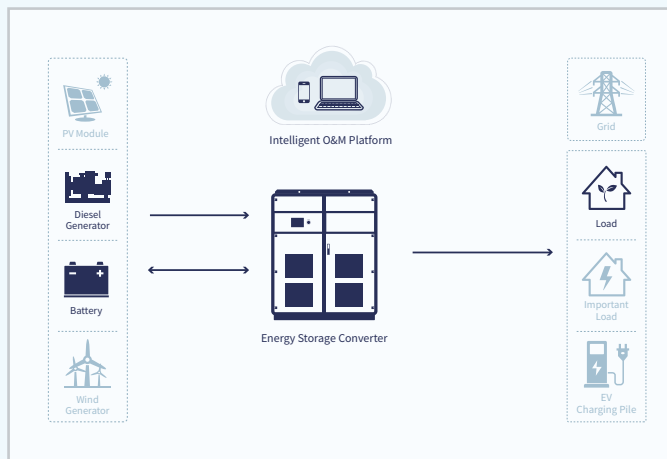
Solution



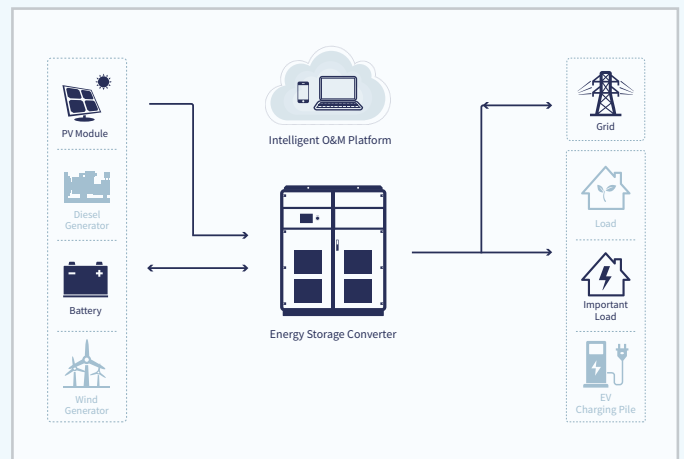
• PV+PCS+Charging Pile



• Multiple Complementary Applications

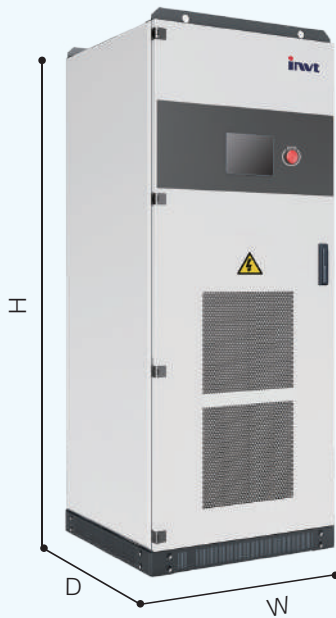


• Offshore Fan Backup Power



• UPS Power Improvement of Data Center

Hybrid Inverter



Simple

- Touch screen, easy to operate.
- All in one solution with PV, battery, load and grid integrated.

Smart

- Multiple Working Mode Presetable.
- Flexible Battery Type (li-ion, lead-acid).
- PV controller can be expanded to facilitate flexible configuration of PV capacity.

Reliable

- Battery Forecast (discharge time, capacity, etc).
- CAN and RS485 Communication Interface, Modbus Protocol.
- Seamless transfer between on and off grid via build in transfer switch.
- Build-in transformer for grid isolation.
- Comprehensive Protection for Inverter and Battery.

Specification

	BD30KTR	BD50KTR	BD100KTR	BD120KTR	BD150KTR
PV					
Max PV Open-circuit voltage (Vdc)	1000				
Recommended PV power (kW)	36(Configurable)	60(Configurable)	120(Configurable)	120(Configurable)	150(Configurable)
PV MPPT voltage range	520-850				
AC(Grid-connected)					
Apparent power (kVA)	33	55	110	132	165
Rated voltage (V) / range (V)	400/320-460				
Rated current (A)	43	72	144	173	217
Rated frequency (Hz) / range (Hz)	50/60; 45-55/55-65				
THDI	<3%				
PF	1(-0.8~+0.8)				
AC(Off-grid)					
Apparent power (kVA)	33	55	110	132	165
Rated power (kW)	30	50	100	120	150
Rated voltage (V)	400				
Rated current (A)	43	72	144	173	217
THDU	≤2% linear				
Rated frequency (Hz)	50/60				
Overload capability	110%-10min; 120%-1min				
Battery					
Rated Voltage (Vdc)	384-456				
Max charging power (kW)	30	50	100	120	150
Max charging current (A)	85	142	285	340	425
General Data					
Protection degree	IP20				
Noise emission (dB)	<65				
Environmental temperature	-25℃ to +55℃				
Cooling	Forced-air				
Relative humidity	0-95%, non-condensing				
Dimension (W x D x H)	800x800x2050		1200x800x2050		
Weight (kg)	440	620	900	1024	1250
Standby consumption (W)	<30				
Display	Touch screen				
Communication interface	RS485/CAN				

Energy Storage Converter



Efficient

- Advanced DSP, more stable and effective.
- Compatible with different batteries.
- Wide battery voltage range.

Smart

- Support on-grid charge/discharge, off-grid modes.
- Reactive and active power can be adjusted.
- Flexible communication mode, BMS management.

Reliable

- Support soft start, support parallel connection function.
- Friendly HMI, easy to use and maintenance.
- Small size, convenient for installation, transportation and maintenance.

Specification

	BD50KTR-T	BD100KTR-T	BD250KTR-T	BD500KTR-T	BD500KTR	BD630KTR
DC (Battery)						
Apparent power (kW)	55	110	275	500		690
Voltage range (V)	500-850				550-850	
Max current (A)	110	220	550	1100		1200
AC						
Rated power (on grid) (kW)	50	100	250	500		630
Max current (on grid) (A)	80	160	400	800	1008	1212
Rated voltage (V) / range (V)	400/310-450				400(315optional)/252-362	
Rated frequency (Hz) / range (Hz)	50/60; 45-55/55-65					
THD	<3%					
Power factor	1(-0.8~+0.8)					
Overload capability (off grid)	110%-10min/120%-1min					
General Information						
Maximum efficiency	0.965	0.971	0.973	0.975	0.987	
Protection degree	IP21					
Operation Temperature	- 30°C ~ +55°C					
Cooling method	Forced air					
Dimension (W x D x H mm)	800x800x2050		1200x800x2050	1600x935x2050	1200x800x2050	
Weight (kg)	450	860	1350	2770	1400	
Transformer	yes				no	
Communication						
BMS Interface	RS485; CAN					
Certificate	CQC、TUV					



• Jiangsu, China 500kW/1.8MWh



• Guangdong, China 500kW/1.8MWh



• Dongguan, China 500kW/1.5MWh

Applications



• Qingdao, China 1MW/3.6MWh



• Dongguan, China 500kW/300kWh



• Foshan, China 375kW/1.2MWh



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