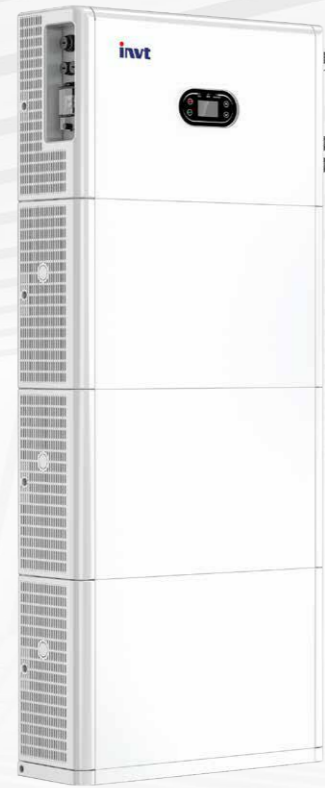


XD3-6KTL-AIO

Energy Storage System



- Max. efficiency 97.5%
- 2 MPP trackers, 160% DC input oversizing
- Max. charging/discharging current 100A for faster power backup
- Max. PV input current 16A, compatible with high-power modules
- DC & AC Type II SPD: prevent lightning damage
- High ingress protection rating of IP65: supports outdoor installation
- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- EPS Switching Under 10ms, UPS-level switching
- Easy-install, quick-stack design
- Modular design allows for scalability and customization
- Multiple working modes and support parallel access to PV, batteries, normal loads, EV chargers, and grids
- Support RS485/CAN/WiFi/4G/LAN/Bluetooth optional: remote monitoring and operation via PC or mobile phones

Efficient Higher Revenue

Reliable Worry-Free

Flexible Abundant Configuration

Technical Data			
System Schematic			

Input (Battery)			
Battery Type	LFP		
Battery Energy	5.12kWh	10.24kWh	15.36kWh
Number of Batteries	1	2	3
Dimension (W x H x D)	640 x 875 x 210 mm	640 x 1250 x 210 mm	640 x 1625 x 210 mm
Battery Voltage	51.2V		
Voltage Range	43.2V ~ 56.16V		
Max. Charging / Discharging Current	100A		

Inverter Module	XD3KTL-AIO	XD3K6TL-AIO	XD4KTL-AIO	XD4K6TL-AIO	XD5KTL-AIO	XD6KTL-AIO
Input (PV)						
Max. PV Input Power	4.5kW	5.4kW	6kW	6.9kW	7.5kW	9kW
Max. PV Input Voltage	600V					
Start-up Voltage	100V					
MPPT Voltage Range	100V ~ 550V					
Number of MPP Trackers / String per MPPT	2 / 1					
Max. PV Input Current	16A					
Max. Short Circuit Current per MPPT	24A					
Output (AC)						
Rated Output Power	3kW	3.68kW	4kW	4.6kW	5kW	6kW
Max. Output Power	3.3kVA	3.68kVA	4.4kVA	4.6kVA	5.5kVA	6kVA
Max. Output Current	15A	16A	20A	20.9A	22.7A	26.1A
Rated Voltage	230V					
Rated Frequency	50Hz / 60Hz					
THDi(@Rated Power)	< 3%					
Power Factor	0.8 leading ~ 0.8 lagging					
Output (EPS)						
Max. Output Power	3kVA	3.68kVA	4kVA	4.6kVA	5kVA	6kVA
Max. Output Current	15A	16A	20A	20.9A	22.7A	30A
Peak Output Power, Time	4.5kW, 10s	5.5kW, 10s	6kW, 10s	6.9kW, 10s	7.5kW, 10s	7.5kW, 10s
Rated Voltage, Frequency	230V, 50Hz					
THDv(@Rated Power)	< 3%					
Switch Time	< 10ms					
Efficiency						
Max. Efficiency	97.50%					
EU Efficiency	97.20%					
Max. Battery Charge/Discharge Efficiency	95.00%					
Protection						
Protection	DC Reverse Polarity Protection, Insulation Resistance Monitoring, Ground Fault Monitoring, Over Current / Over Voltage Protection, Battery Soft Start Protection					
AFCI Protection	Optional					
Surge Protection	Type II					
General Data						
Operating Temperature Range	-10°C ~ +45°C					
Self-consumption	< 10W					
Protection Degree	IP65					
Relative Humidity	0 ~ 100%					
Display	LCD					
Communication	RS485 / CAN / WiFi / 4G / LAN / Bluetooth					
Max. Operating Altitude	4000m					
Cooling Method	Natural					