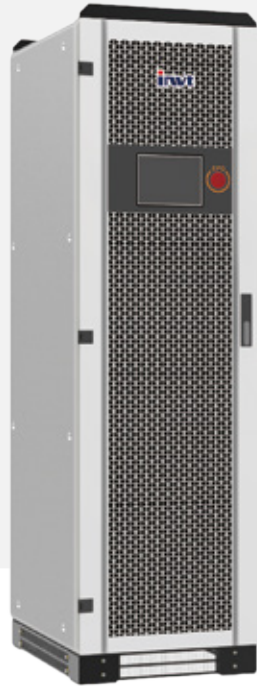


# BD30-500kW-P

Energy Storage System (All in one)



**Intelligent  
Simple O&M**

- Support battery capacity and discharge time prediction
- Smooth switching between on and off grid, uninterrupted supply of load
- Operate with EMS to monitor system status in real time
- Support RS485/CAN: remote monitoring and operation via PC or mobile phones



**Flexible  
Abundant configuration**

- Various working modes can be set flexibly
- PV controller modular design, easy to expand
- Integrated design, easy to integrate
- Support simultaneous access of load, battery, power grid, diesel and PV
- Built-in maintenance bypass switch, improve system availability



**Reliable  
Worry free**

- Built-in isolation transformer for high load adaptability
- Perfect protection function for inverter and battery
- Redundancy design for important functions

	BD30KTR-P	BD50KTR-P	BD100KTR-P	BD150KTR-P	BD250KTR-P	BD500KTR-P
<b>AC (On-grid)</b>						
Apparent Power	33kVA	55kVA	110kVA	165kVA	275kVA	550kVA
Aated Power	30kW	50kW	100kW	150kW	250kW	500kW
Rated Current	43A	72A	144A	216A	361A	722A
Rated Voltage	400V					
Rated Frequency	50Hz / 60Hz					
Rated Grid Voltage	320V ~ 460V, 3W + N + PE					
Power Factor	1 lagging~1 leading					
THDi	<3%					
Transformer Ratio	100 / 400	200 / 400	270 / 400	270 / 400	270 / 400	315 / 400
<b>AC (Off-grid)</b>						
Apparent Power	33kVA	55kVA	110kVA	165kVA	275kVA	550kVA
Aated Power	30kW	50kW	100kW	150kW	250kW	500kW
Rated Current	43A	72A	144A	216A	361A	722A
Rated voltage	400V					
Rated Frequency	50Hz / 60Hz					
Overload Capability	110% long-term					
THDu	≤ 1% linear; ≤ 5% nonlinear					
<b>Input (PV)</b>						
Max. PV Input Voltage	1000V					
Max. PV Input Power	60kW / 120kW		120kW / 180kW / 240kW		300kW / 360kW	600kW / 660kW / 720kW
MPPT Voltage Range	250V ~ 850V					
MPPT voltage Range @Full Load	450V ~ 850V					
<b>Battery</b>						
Battery Voltage Range	250V ~ 850V	320V ~ 850V	420V ~ 850V			500V ~ 850V
Max. Charging Power	60kW / 120kW		120kW / 180kW / 240kW		300kW / 360kW	600kW / 660kW / 720kW
<b>Communication</b>						
Display	LCD					
BMS Communication	RS485, CAN					
EMS Communication	RS485, TCP/IP					
<b>Standard Compliance</b>						
Certificates	CE, TÜV					
<b>General Data</b>						
Dimensions (W x H x D)	800 x 1900 x 800 mm		1200 x 2050 x 800 mm		(600 x 2050 x 720 mm) x 1+ 1800 x 2050 x 800 mm	(600 x 2050 x 720 mm) x 2+ 2800 x 2050 x 1050mm
Weight	620kg / 650kg	720kg / 750kg	1120kg / 1150kg /1180kg	1250kg / 1280kg /1310kg	1980kg / 2010kg	3265kg / 3295kg / 3325kg
Operation Temperature	-30° C ~ +55° C					
Cooling Method	Air Cooling					
Protection Degree	IP20					
Noise Emission	<70dB					
Max. Operating Altitude	5000m (derating above 3000 m)					
Relative Humidity	0 ~ 95% (non-condensing)					