

FShark-KT Series 8~20kW Three Phase All-in-One ESS



Touch Screen Design for
Easier Operation



Modular Design,
Wire-free Installation

4 MPPTs

4 independent MPPTs design
to enhance system power
generation efficiency

110%

Support 110% three-phase
unbalanced load output

10.24~40.96kWh

Batteries are stacked in
modules

18A

Max. 18A PV input current
per string

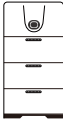


Intelligent load management
(such as heat pumps,
diesel generators)



Support remote software
upgrade (OTA)

System Parameters

System Structure								
Inverter Rated output power	4,000-20,000W							
Battery Rated output power	6,000W	9,000W	12,000W	15,000W	18,000W	21,000W	24,000W	
Number of battery modules	2	3	4	5	6	7	8	
Battery capacity	10.24kWh	15.36kWh	20.48kWh	25.60kWh	30.72kWh	35.84kWh	40.96kWh	
Operating temperature	0°C ~50°C (Charging)/-10°C ~50°C (Discharging)							
Noise	<25dB							
Humidity	0-100%							
Communication	RS485/WiFi							
Enclosure protection rating	IP65							
Operating altitude	≤3000m(>3000m Power Derating)							
Weight	154.4kg	208.6kg	262.8kg	317kg	171.2kg	425.4kg	479.6kg	
Dimension [W*D*H, mm]	770*200*1300	770*200*1685	770*200*2070	770*200*1685 770*200*1010	770*200*1685 770*200*1395	770*200*1685 770*200*1780	770*200*1780	770*200*2070 770*200*1780

Inverter

Model	FShark-4KT	FShark-5KT	FShark-6KT	FShark-8KT	FShark-10KT	FShark-12KT	FShark-15KT	FShark-20KT
No. of battery inputs	1			2				
Battery voltage range	135-750V							
Max. charge/discharge current	25A/25A							
Max. PV input power	6,000W	7,500W	9,000W	12,000W	15,000W	18,000W	22,500W	30,000W
Max. PV voltage	1,000V							
Start-up voltage	135V							
Rated PV input voltage	600V							
MPPT voltage range	120-960V							
No. of MPP trackers	2			4				
No. of string per MPP tracker	1/1			1/1/1/1				
Max. PV input current	18A/18A			18A/18A/18A/18A				
Rated output power for on-grid and off-grid	4,000W	5,000W	6,000W	8,000W	10,000W	12,000W	15,000W	20,000W
Max. AC output current for on-grid and off-grid	6.7A	8.3A	10.0A	13.3A	16.7A	20A	25A	33.3A
Rated output voltage	3L/N/PE, 220/380V, 230/400V							
Rated frequency	50/60Hz							
THDv	< 3%							
Switch time	<10ms							
Cooling strategy	Natural						Fan	
Inverter topology	Non-isolated							
Max. efficiency	98.2%							
Euro efficiency	97.5%							
Weight	50.5kg							
Dimension [W*D*H]	770*200*470mm							

Battery Module

Battery type	Li-ion (LFP)
Rated battery voltage	409V
Battery voltage range	320~467V
Capacity	5.12kWh
Standard charging current	7.5A
Max. discharging current	12.5A
Cut-off Charging voltage	320V
Rated output power	3000W
Weight	54.2kg
Dimension [W*D*H]	770*200*385mm