

DH100F

DH100F features an integrated multi-functional design that supports PV access and on-and-off-grid switching. It encompasses the whole scenario of photovoltaic, storage and diesel generator use. The single cabinet capacity of 71/86/100kWh optional, allowing for customization based on electricity consumption needs. This system is ideal for office parks, commercial buildings, charging stations, and other small industrial and commercial applications.



Flexible Expansion

Single cabinet capacity of 71/86/100kWh optional, supports both on-grid and off-grid AC parallel operation



Simple O&M

Modular design, bottom outlet, easy to install and maintain



IP55 +C3

Fearless of outdoor installation, high environmental adaptability



Safe & Reliable

Three-level fire detection + active venting+ passive explosion-proof design to eliminate hidden hazards and ensure safe operation



Full-scenario

Supporting PV connection, on-and-off-grid switching, covering the whole scenario of photovoltaic, energy storage and diesel generator use

SPECIFICATION

Model	DH100F-C70	DH100F-C80	DH100F-C100
Battery			
Battery Type		LiFePO ₄	
Battery Capacity		280Ah	
Rated Current		140A	
Max. Current		160A	
PACK Configuration	1P16S*5	1P16S*6	1P16S*7
Voltage Range	232~288Vdc	278.4~345.6Vdc	324.8~403.2Vdc
Nominal Capacity	71kWh	86kWh	100kWh
On-grid AC Side			
Rated Power	35kW	40kW	50kW
AC Maximum Current	61A	69A	86A
AC Rated Voltage		400Vac	
Wiring Method		3P4L+PE	
Frequency		50Hz/60Hz	
Power Factor		0.8 (Leading)~0.8 (Lagging)	
THDi		< 5% (Rated power)	
Off-grid AC Side			
Rated Power	35kVA	40kVA	50kVA
AC Maximum Current	61A	69A	86A
AC Rated Voltage		400Vac	
Wiring Method		3P4L+PE	
Frequency		50Hz/60Hz	
Unbalanced Load		100%	
THDv		< 3% (Liner load)	
Photovoltaic (Optional)			
Max. Input Power	25kW*2	30kW*2	35kW*2
Max. Input Current		80A*2	
Short-circuit Current		100A	
Max. Voltage		1000Vdc	
Input Voltage Range	300~1000Vdc	350~1000Vdc	400~1000Vdc
Start-up Voltage	375Vdc	440Vdc	500Vdc
MPPT Path		2	
System			
Weight	1500±100kg	1600±100kg	1700±100kg
Dimension (W/D/H)		1200/1205/2260mm	
Max. Efficiency		84%	
Air Conditioner Power		2kW (Cooling), 1kW (Heating)	
Operating Temperature		-20~50°C (Derating above 45°C)	
Operating Humidity		0~95%RH (Non-condensing)	
Ingress protection		IP55	
Anti-corrosion Grade		C3	
Cooling Method		Air cooling	
Noise		≤75dB	
Elevation		3000m (Derating above 2000m)	
Display		Touch screen	
Fire Protection		Aerosol, Multi-sensor, Water ingress detector, Explosion-proof ventilation	
Communication		Ethernet/4G/RS485	
Certification		CE, LVD, UN38.3	

