

DH100F

DH100F features an integrated multifunctional design that supports PV access and on-grid to off-grid switching. It encompasses the whole scenario of photovoltaic, storage and diesel generator. 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.



Safe & Reliable

Three-stage detection + active exhaust + passive explosion-proof design to eliminate hidden hazards and ensure safe operation.



IP55 Protection

Fearless of outdoor installation, strong environmental adaptability



Simple O&M

Modular design, rear outlet and lower outlet mode, easy to install, easy to layout, easy to maintain, and support for online monitoring and O&M



Full-scenario

Supporting PV access, on-grid to off-grid switching, covering the whole scenario of photovoltaic, storage and diesel generator

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			
PACK Quantity	5 PACK/Cluster	6 PACK/Cluster	7 PACK/Cluster	
Voltage Range	232~288Vdc	278.4~345.6Vdc	324.8~403.2Vdc	
Nominal Capacity	71kWh	86kWh	100kWh	
AC (On-grid)				
Rated Power	35kW	40kW	50kW	
AC Maximum Current	60A	74A	86A	
AC Rated Voltage	400Vac			
Wiring Method	3P4L+PE			
Frequency	50Hz/60Hz			
Power Factor	0.8 (Leading)~0.8 (Lagging)			
THDi	< 5% (Rated power)			
AC (Off-grid)				
Rated Power	35kVA	40kVA	50kVA	
AC Maximum Current	60A	74A	86A	
AC Rated Voltage	400Vac			
Wiring Method	3P4L+PE			
Frequency	50Hz/60Hz			
Unbalanced Load	100%			
THDv	< 3% (Linear load)			
Photovoltaic				
Max. Input Power	25kW*2	30kW*2	35kW*2	
Max. Input Current	80A*2			
Short-circuit Current	100A*2			
Max. Voltage	1000Vdc			
Input Voltage	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)	1200/1224/2258mm			
Max. Efficiency	≥84% (TBD)			
Air Conditioner Power	2kW (Cooling), 1kW (Heating)			
Temperature	-20~50°C (Derating above 45°C)			
Humidity	0~95%RH (Non-condensing)			
Ingress protection	IP55			
Anti-corrosion Grade	C3			
Cooling Method	Air cooling			
Noise	≤70dB (TBD)			
Elevation	3000m (Derating above 2000m)			
Display	Touch screen			
Fire Protection	Aerosol (Optional Perfluorohexanone)			
Communication	Ethernet/4G/RS485			
Certification	CE, TUV			

