



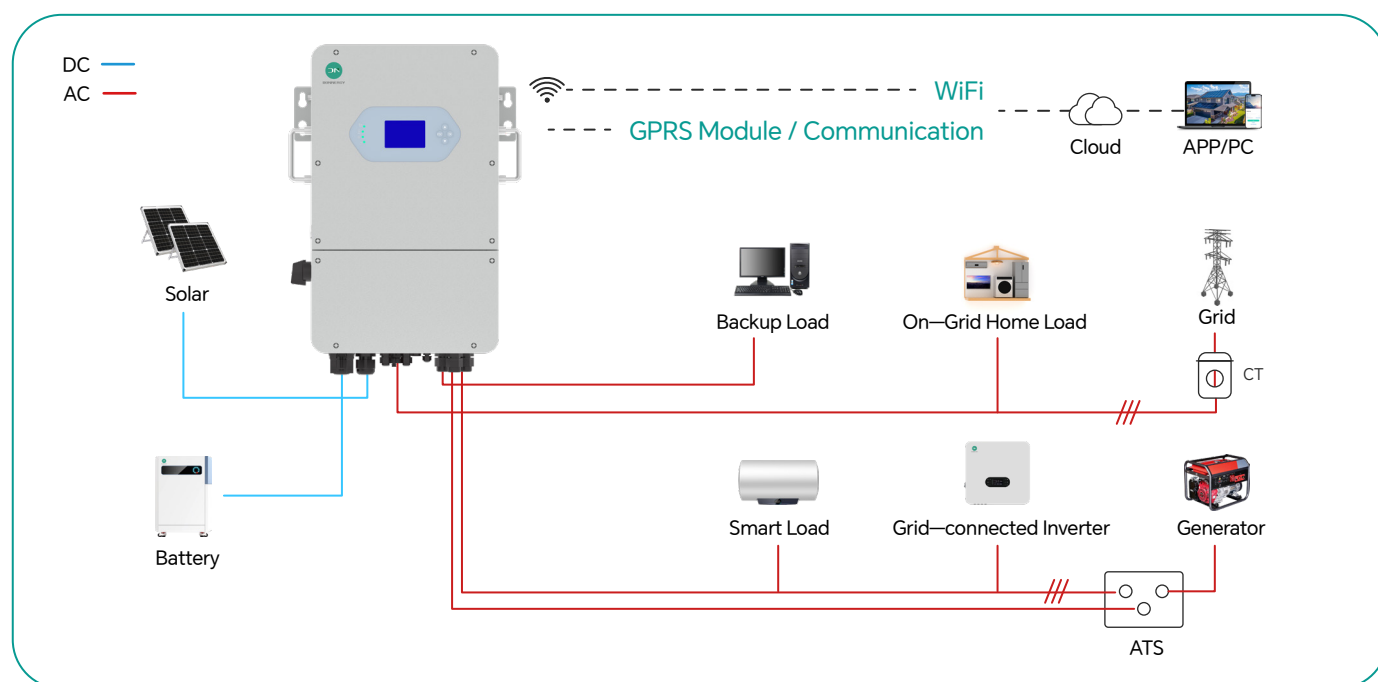
DONNERGY

DGH02-P1M6K~12K-EU

Single Phase Hybrid Inverter

Features

- Supports up to 12 units in parallel operation, meeting the demands of small-scale industrial and commercial energy storage applications.
- Grid-to-off-grid switching time is less than 10 ms, ensuring uninterrupted power supply to critical equipment.
- Allows configuration of up to 6 battery charging time periods and cut-off thresholds.
- Supports maximum power charging and discharging modes.
- Compatible with diesel generators for battery charging and load power supply.
- High system efficiency with intelligent air-cooling to prolong overall service life.
- Integrated communication interfaces including RS485, CAN, and WiFi (via App/PC Cloud monitoring).
- Smart load management, CT sensing, ATS support, and optional GPRS module for remote connectivity.



Technical Parameters / Model	6K	8K	10K	12K
Battery Input Data				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range(V)	40~60			
Max. Charging Current(A)	135	190	220	250
Max. Discharging Current(A)	135	190	220	250
Charging Curve	3 Stages / Equalization			
External Temperature Sensor	yes			
Charging Strategy for Li-Ion Battery	Self-adaptation to BMS			
PV String Input Data				
Max DC input Power(W)	7800	10400	13000	15600
PV Input Voltage(V)	370V(125V~500V)			
MPPT Range(V)	150~425V			
Full Load DC Voltage Range	300~425V			
Start-up Voltage(V)	125V			
PV input Current(A)	18+18	26+26	26+26+26	26+26+26
Max.PV Isc(A)	27+27	34+34	34+34+34	34+34+34
No. of MPPT Trackers	2	2	3	
Number of Strings per MPPT Tracker	1+1	1+1	1+1+1	1+1+1
AC input/Output Data				
Rated AC Output and UPS Power(W)	6000	8000	10000	12000
Max. AC Output Power(W)	6600	8800	11100	13200
Peak Power(off grid)	2 times of rated power, 10S			
AC Input/output Rated Current(A)	27.3/26.1	36.4/34.8	45.5/43.5	54.6/52.2
Max. AC input/Output Current(A)	30/28.7	40/38.3	50/47.9	60/57.4
Max. Continuous AC Passthrough(A)	40	50	60	60
Power Factor	0.8 leading to 0.8 lagging			
Output Frequency and Voltage	50/60Hz; 220/230Vac			
Grid Type	Single Phase			
Total Harmonic Distortion (THD)	<3% (of nominal power)			
DC Current injection	<0.5% In			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	96.50%			
MPPT Efficiency	>99%			
Protection				
PV Arc Fault Detection	Integrated			
PV input Lightning Protection	Integrated			
Anti-islanding Protection	Integrated			
PV String input Reverse Polarity Protection	Integrated			
Insulation Resistor Detection	Integrated			
Residual Current Monitoring Unit	Integrated			
Output Over Current Protection	Integrated			
Output Shorted Protection	Integrated			
Surge Protection	Dc Type II / Ac Type II			
Over Voltage Category	Dc Type II / Ac Type III			
Certifications and Standards				
Grid Regulation	IEC61727/62116,EN50549-1			
EMC/Safety Regulation	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2			
General Data				
Operating Temperature Range(°C)	-40~60°C,>45°C Derating			
Cooling	Smart cooling			
Noise(dB)	<50 dB			
Communication with BMS	RS485; CAN			
Monitoring mode	WiFi+APP			
Weight(kg)	19	24	31	31
Cabinet size(mm)(WxHxD) (Excluding connectors and brackets)	340Wx520Hx255D	340Wx610Hx260D	446x576x254	446x576x254
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			