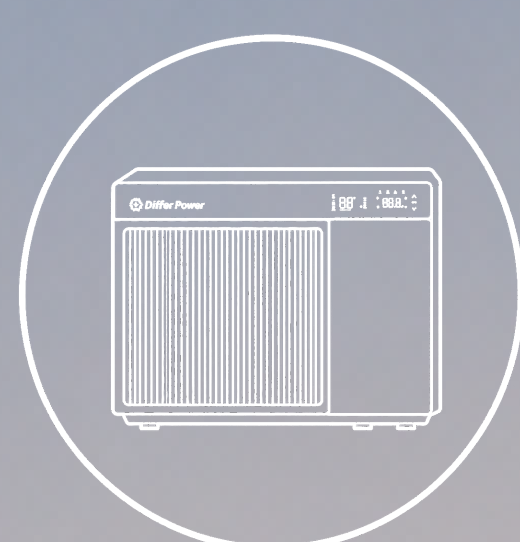


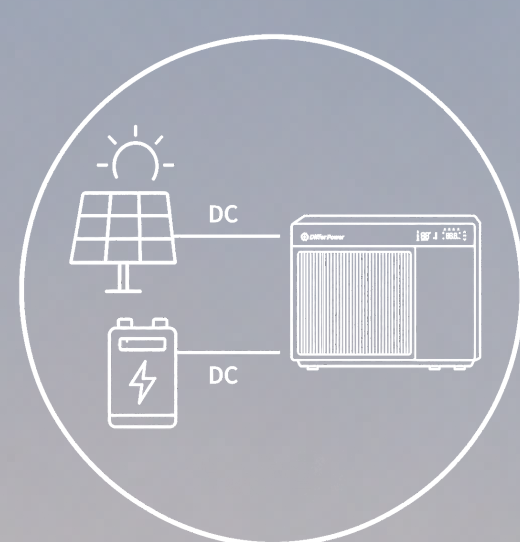
9-in-1 Solar-Storage Heat Pump

D Series

Beyond Heating
Powering Your Home



9-in-1 One Box with
built-in connectivity



Solar and storage direct
drive delivers 10%+
more usable energy



Seamless backup power
for continuous heat
pump operation



One-stop support,
app-based diagnosis



96%

Smart management
for solar self-consumption

-25°C

Stable Heating,
reliable comfort

10%+

System Efficiency Gain
via PV-Storage Direct Drive

A+++

System-Level Energy
Efficiency Performance

Specifications



Model		DualDriveX-HP-V12-S06	DualDriveX-HP-V14-S06	DualDriveX-HP-V16-S06
Heating A7/W35	Heating Capacity [kW]	12.14	14.02	16.04
	Rated Input Power [kW]	2.52	2.99	3.51
	COP	4.82	4.69	4.57
Heating A7/W55	Heating Capacity [kW]	12.16	14.28	15.84
	Rated Input Power [kW]	3.93	4.76	5.26
	COP	3.09	3.00	3.01
SCOP	Leaving Water Temp. 35°C	5.11	5.08	5.06
	Leaving Water Temp. 55°C	3.96	3.99	3.99
Energy Efficiency Class	Leaving Water Temp. 35°C	A+++	A+++	A+++
	Leaving Water Temp. 55°C	A+++	A+++	A+++
Noise	Sound pressure [1m] [dB(A)]	45	47	49
	Sound power level [dB(A)]	59	59	60
PV Input				
Max. PV Array Power [Wp]		12000		
Max. PV Input Power [W]		9000 (PV1: 4500 / PV2: 4500)		
Max. Input Voltage [V]		550		
Start-up Voltage [V]		80		
Rated Input Voltage [V]		380		
MPPT Operating Voltage Range [V]		90 ~ 550		
Max. Input Current [A]		16 / 16		
Max. Short Circuit Current [A]		20 / 20		
Number of MPPTs		2		
Strings per MPPT		1		
Battery				
Battery Type		Lithium Iron Phosphate (LFP)		
Battery Voltage Range [V]		80~460		
Max. Charge / Discharge Current [A]		30		
Nominal Energy [kWh]		7.68~15.36		
Communication Interface		CAN		
Charging temperature range		0~55°C / -20~55°C (optional)		
Discharging temperature range		-20~55°C		
Cycle life		≥8000 cycles		
Protection rating		IP55		
Capacity expansion		supports up to 12 clusters in parallel		
AC Input & Output (Grid)				
Max. Input Power [VA]		12000		
Max. Input Current [A]		54		
Rated Output Power [W]		6000		
Max. Apparent Output Power [VA]		6600		
Rated Voltage [V]		220 / 230 / 240		
Rated Grid Frequency [Hz]		50 / 60		
Power Factor		1		
Current THD [%]		<3 (at Rated Power)		
Backup Output (with Battery)				
Max. Apparent Output Power [VA]		6000		
Peak Output Apparent Power [VA]		9000 (10s)		
Max. Output Current [A]		27.3		
Rated Output Voltage [V]		220/230/240		
Rated Output Frequency [Hz]		50 / 60		
Voltage THD (Linear Load) [%]		<2 (at Rated Power)		
Efficiency				
Euro Efficiency [%]		97		
Max. Efficiency [%]		97.5		
General Specifications				
Compressor	Type	Twin-Rotary DC Inverter		
Outdoor Fan	Motor Type	Brushless DC Motor		
	Quantity	1		
Expansion Device	Type	Electronic Expansion Valve (EEV)		
Water-side Plate Heat Exchanger	Water Flow Rate [m³/h]	2.09	2.42	2.75
	Water Pressure Drop [kPa]	30		
Built-in Circulation Pump	Head [m]	9		
Built-in Expansion Tank	Capacity [L]	3		
Built-in Inverter	Cooling Method	Outdoor Fan Assisted Air Cooling		
Refrigerant	Type	R290		
	Factory Charge [kg]	1		
Dimension Guide				
Net Dimensions (W × H × D) [mm]		1300 × 990 × 575 (including feet)		
Standby Power Consumption [W]		<25		
Monitoring Module		WiFi		
Energy Meter		CT / Meter		
User Interface		LCD, APP, Web Portal, Wired Controller		
Water Connection		G 1 1/4"		
Operating Range	Cooling [°C]	5 ~ 45		
	Heating [°C]	-25 ~ 45		
	Domestic Hot Water [°C]	-25 ~ 45		
Water Temperature Range	Cooling [°C]	5 ~ 25		
	Heating [°C]	20 ~ 75		
	Domestic Hot Water [°C]	20 ~ 75		
Protection & Compliance				
Insulation Monitoring		Supported		
Residual Current Detection		Supported		
DC Reverse Polarity Protection		Supported		
AFCI Protection		Supported		
AC Short Circuit Protection		Supported		
AC Overcurrent Protection		Supported		
Safety Standards		EN 62109-1, EN 62109-2		
Grid Standards		G99, CEI 0-21 (Certification in Progress), EN50549 (Certification in Progress)		