

PowerHub Home Energy Storage System

FLEXIBLE

USE WITH NEW OR EXISTING PV SYSTEM

EXPANDABLE

MODULAR DESIGN AVAILABLE IN 2 SIZES

STACKABLE CONNECT UP TO 4 UNITS ACHIEVE UP TO 80kWH

The greenworks[®] PowerHUB[™] is a compact modular Energy Storage System with a powerful Lithium-Ion (LFP) battery and hybrid inverter. PowerHub can be integrated with the utility grid, solar panels, and even a generator to provide reliable energy in all conditions.

An intuitive mobile app

Monitor & manage your energy from anywhere.



Expandable Modular Design

For growing energy needs and easier installation.

Available in 10kWH or 20kWH, peak inverter efficiency 98%, includes integrated arc fault protection, and rapid shutdown transmitter.



Power Hub

- Stack up to four 5 kWh batteries for 20kWh per unit
- Modular design for easier & faster installation
- Floor or wall mounted
- Long life & Safe LFP battery



- Smart Switch
- Supports up to 5 circuits
- Real-time load monitoring
- Auto control of high amp loads for quicker black-start recovery

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7.6 kW Hybrid Inverter

- Up to 200% PV oversizing
- 3 MPPTs
- Maximum 16A PV input current
- Microgrid Supported

Best-In-Class Power Output* Delivers up to 7.6 kW continuous backup power.

Supports DC and AC input Suitable for new and existing PV systems.

Allows up to 15.2 kW of solar input 3 Maximum Power Point Trackers (MPPT) for higher yields of solar power.

Integrated Transmitter Enables easy installation of rapid shut down devices for safe PV array connections

Compact And Sleek Design Can be installed indoors or outdoors, wall mounted or floor mounted

Stackable

Connect up to four units together to achieve up to 80kWh of usable storage capacity for whole-home power.

*During grid outages vs. competing models.



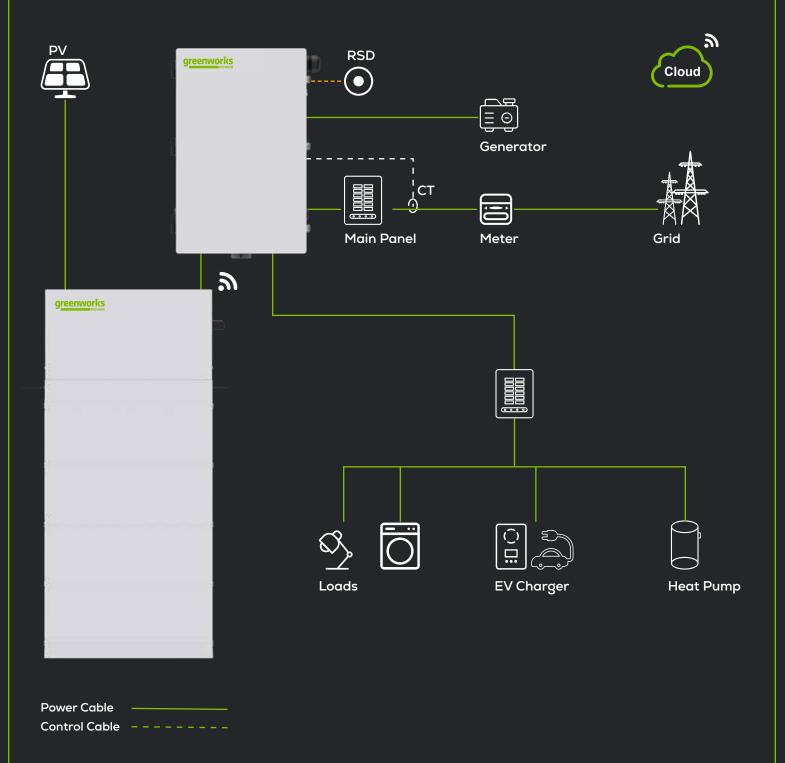
Backup Interface

- Supports 200A main panel
- 64A generator support
- Built-in energy management meter



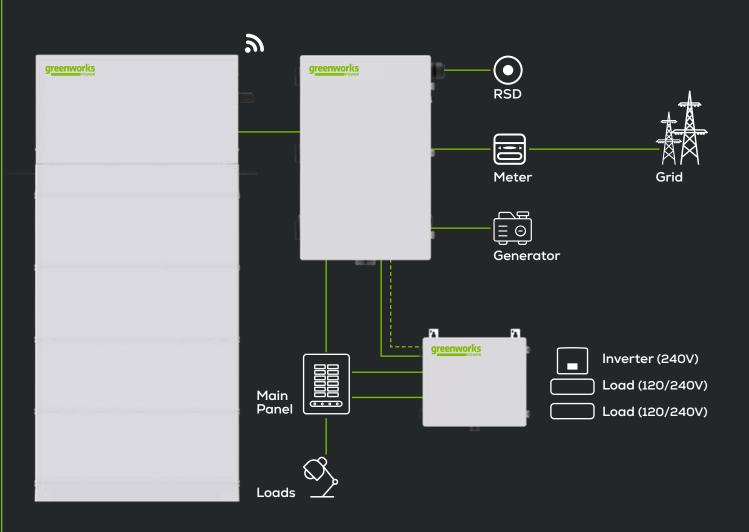
TEL: 866-201-2120 EMAIL: PowerHub@greenworkspower.com greenworkspower.com

Flexible Home Backup Solution





Smart Home Circuit Control 3x 240V / 1x 240V, 4x 120V



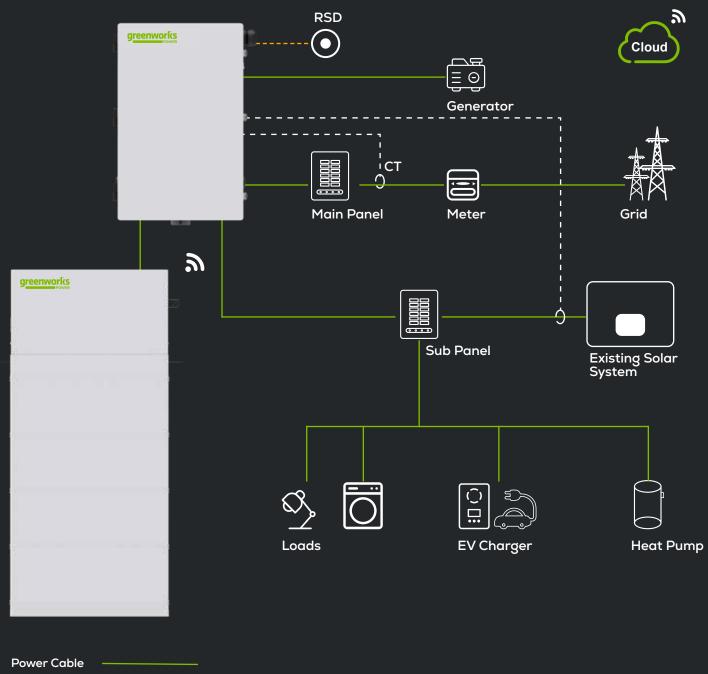
Power Cable	
Control Cable	

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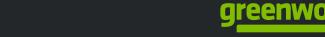
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Flexible Home

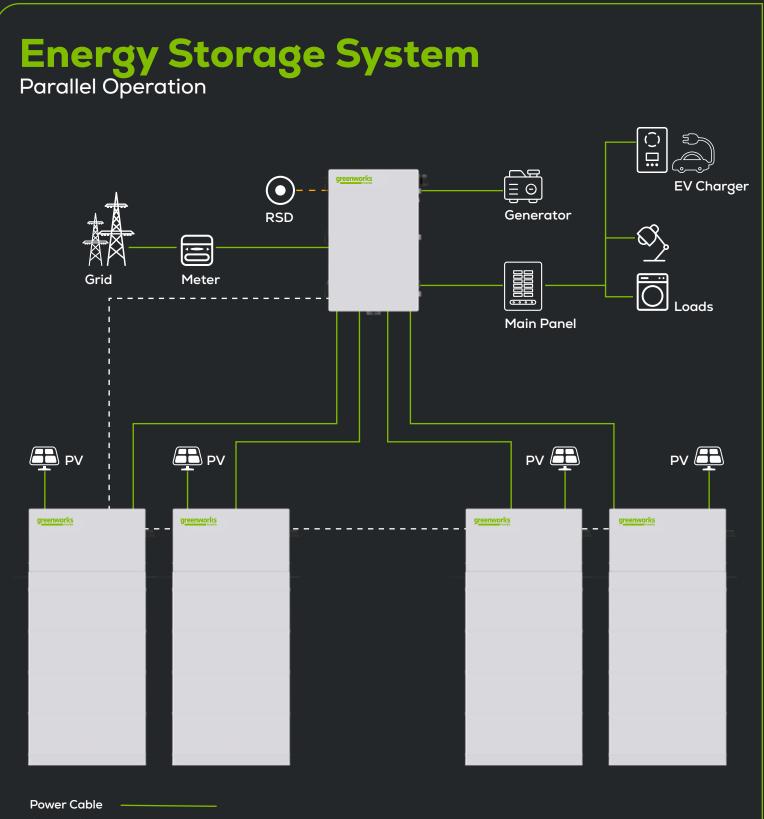
Backup Solution AC Coupled



Control Cable -----



TEL: 866-201-2120 EMAIL: PowerHub@greenworkspower.com greenworkspower.com



Control Cable -----



PowerHub Hybrid Inverter GWU-HYB-7.6TH

INPUT PV

Maximum recommended PV power [W] Maximum DC voltage [V] 550 Nominal DC operating voltage [V] Maximum input current [A] Maximum short circuit current [A] MPPT voltage range [V] Start input voltage [V] No. of MPP trackers, Strings per MPP tracker DC disconnection switch

INPUT/OUTPUT AC

Nominal / Maximum apparent AC power [VA] Peak apparent AC power [VA] (10s, o -grid/backup) Nominal AC voltage [V] / Nominal AC frequency [Hz] Nominal AC current [A] Displacement power factor Total harmonic distortion (THD, rated power)

INPUT/OUTPUT BAT

Maximum output power [W] Maximum charge / discharge current [A] Reverse-polarity protection

ADDITIONAL FEATURES

AFCI Revenue Grade Metering, ANSI C12.20 Rapid shutdown transmitter

EFFICIENCY

CEC weighted efficiency Maximum inverter efficiency

POWER CONSUMPTION

Nighttime power consumption [W]

STANDARD Safety

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Emissions Grid connection standards

INSTALLATION SPECIFICATIONS

Protection class

Operating temperature range [°F / °C] De-rating start temperature [°F / °C] Storage temperature range [°F / °C] Relative humidity [%] Typical noise emission [dBA] Over voltage category

GENERAL

Dimensions (W x H x D) [in / mm] Weight [Ib / Kg] Communication interfaces 15200 550 360 A: 16 / B: 16 / C: 16 A: 20 / B: 20 / C: 20 90-500 120 3, 1 / 1 / 1 YES

7608 / 7608 13680 / 13680 240 / 50 , 60 31.7 0.8 leading to 0.8 lagging < 3%

> 7600 54 YES

YES Optional Integrated PLC controller to RSD

> 97.50% 98.00%

> > <З

UL1741 SA, UL1741 SB, UL1699B, CSA - C22.2 No. 107.1-01, Canadian AFCI according to T.I.L. M-07 FCC Part 15 Class B IEEE1547, Rule 21, Rule 14, SRD V2.0 (HI)

> NEMA 4X -13 to +140 / -25 to +60 113 / 45 or above -13 to +167 / -25 to +75 0 to 95 < 30 IV (electric supply side), II (PV side)

33.5 × 17.9 × 5.8 / 850 × 455 × 148 75 / 34 RS485, CAN, WIFI (optional) / 4G (optional), Dry Contact



PowerHub LFP Battery GWU-BAT-5.0H

T-BAT H 10.0

T-BAT H 20.0

MODEL **Battery type** Component

100Ah Lithium (LFP) TBMS-MCS60060 + 4*TP-HS50 TBMS-MCS60060 + 2*TP-HS50

NOMINAL CHARACTER (10/20kWh)

Voltage [V] 102.4 204.8 Operating voltage range [V] 90 - 116 Total energy [kWh] 10 20 Usable energy [kWh] 9 18 5.5 11.1 Maximum power [kWh] Battery round-trip efficiency % 95% 54 Maximum charge / discharge current [A] Cycle life (90% DOD) 6000 cycles Warranty (Details refer to greenworks Power warranty statement.)

INSTALLATION SPECIFICATIONS

Charge temperature range IF / °C Discharge temperature range IF / °C Storage temperature range IF / °C (3 months) Storage temperature range IF / °C (1 year) Relative humidity [%]

STANDARD

Certification Hazardous materials classification

GENERAL

Dimensions (W x H x D) [in / mm]			
TBMS-MC60060 (BMS)	33.5 x 5.2 x 5.8 / 850 x 133 x 148		
TP-HS50 (BAT)	33.5 × 23.6 x 5.8 / 850 × 600 x 148	33.5 x 47.2 x 5.8 / 850 x 1200 x 148	
Base	33.5 x 2.2 x 5.8 / 850 x 55 x 148		
Weight [lb / kg]	238 lb / 108 kg	476 lb / 216 kg	



Charge: 32 to 127.4 / 0 to 53, Discharge: 14 to 127.4 / -10 to 53 4 to 122 / -20 to 50 32 to 104 / 0 to 40

0 to 100

UN38.3, UL1973, UL9540, UL9540A

Class 9

180 - 232

PowerHub Backup Interface GWU-BI-1.0

GRID INPUT	
Nominal AC input voltage [V]	120 / 240
Nominal AC frequency [Hz]	50 / 60
Maximum continuous AC input current [A]	160
OUTPUT TO MAIN PANEL IN GRID TIED OPERATION	
Nominal AC output voltage [VI	120 / 240
Maximum AC input current [A]	160
OUTPUT TO MAIN PANEL IN BACKUP OPERATION	
Nominal AC output voltage [V]	120 / 240
Imbalance compensation in backup operation [VA]	5000
Split phase imbalance output current [A]	41.7
INPUT FROM INVERTER	
Maximum AC power [W]	7600
Maximum continuous input current @240V [A]	31.7
Maximum inverter input AC circuit breaker [A]	40 (optional)
GENERATOR	
Maximum AC power [W]	15000
Maximum continuous input current [A]	63
Auto generator start	Yes
GENERAL	
Dimensions (H × W × D) [in / mm]	27.8 × 17.7 × 5.9 / 706 × 450 × 151
Weight [lb / kg]	69.4 / 31.5
Energy meter accuracy	1%
Communication interfaces	RS485, CAN, Dry Contact
Cooling	Fan
Warranty	12 years
STANDARD	
Safety	UL1741, CSA 22.2 NO.107
Emissions	FCC part 15 Class B
INSTALLATION SPECIFICATIONS	
Altitude [ft / m]	9843 / 3000 MAX
Operating temperature range [°F / °C]	–13 to +140 / –25 to +60
Protection class	NEMA 3R
Typical noise emission [dB]	< 50



Smart Switch GWU-SW-1.0

INPUT AC (Grid)

Nominal voltage [V] Frequency [Hz] Maximum number of input [240V + 120V / 240V] Maximum overcurrent protection device [A] Maximum continous output current rating [A]

OUTPUT AC (Load)

Nominal voltage [V] Frequency [Hz] Maximum number of output [240V + 120V / 240V] Maximum continous output current rating [A]

STANDARD

Safety EMC

ENVIRONMENT LIMIT

Protection class Operating temperature range [°F (°C)] Storage temperature range [°F (°C)] Relative humidity Altitude [ft (m)] Noise emission (typical) [dB] Mounting options

GENERAL

Dimensions with safety switch (W × H × D) [in / mm] Weight with safety switch [Ib / Kg] Warranty [Years]

120 / 240 60 5 / 3 64 / 32

UL1741, CSA - C22.2 No. 107.1-01 FCC part15 class B ICES003

NEMA 3R -13 to +113 (-25 to +45) -13 to +167 (-25 to +75) 0% - 95% 9843 (3000) MAX < 30 Wall mount (Indoors / Outdoors)

15.2 × 13.1 × 5.5 / 387 × 334 × 140 15.2 / 6.9 5

