# REAL STREET, S

#### **5KW INVERTER, 5KWH BATTERY PACK**

R AmpiHOME BESS electrical interface provides a simple connection to any residential home or commercial / industrial building. Its compact design achieves a cost effective and market leading energy density which delivers a quicker return on investment. Ampowr ensures that all their products enable simple connectivity, usability and recyclability.



### R Power when you need it

SAFE, RESILIENT AND RELIABLE BACK-UP POWER GRID INDEPENDENCE AVOID YEARLY UTILITY PRICE INCREASES REDUCE ELECTRICITY COSTS CONNECT UP TO 4 BATTERY PACKS TO A SINGLE INVERTER CONNECT UP TO 4 INVERTERS IN PARALLEL EASY INSTALLATION AND SMALL IN SIZE

> Rpower www.rfusion.co.uk www.rfusion.tech

## TOMORROWS TECHNOLOGY TODAY

#### INVERTER TECHNICAL SPECIFICATIONS

#### PV STRING INPUT

MAX. DC VOLTAGE	580V
NOMINAL VOLTAGE	400V
MPPT VOLTAGE RANGE	80V-560V
START VOLTAGE	130V
NUMBER OF MPPT TRACKER	2
STRINGS PER MPPT TRACKER	1
MAX. INPUT CURRENT PER MPPT	15A
MAX. SHORT-CIRCUIT CURRENT PER MPPT	18A

#### AC OUTPUT (GRID)

NOMINAL AC OUTPUT POWER	5000W
MAX. AC APPARENT POWER	7360VA (from grid)
MAX. AC OUTPUT POWER	5000W
NOMINAL AC VOLTAGE	230Vac
AC GRID FREQUENCY RANGE	50 / 60Hz ± 5Hz
MAX. OUTPUT CURRENT	22A
MAX. INPUT CURRENT	32A
POWER FACTOR (COSΦ)	0.8 leading - 0.8 lagging
THDI	<3%

#### BATTERY INPUT

BATTERY TYPE	Nano Crystal (NCPB)
NOMINAL BATTERY VOLTAGE	48V
CHARGING VOLTAGE RANGE	40-60V
MAX. CHARGING CURRENT	100A
MAX. DISCHARGING CURRENT	100A
BATTERY CAPACITY	100-400Ah
CHARGING STRATEGY FOR NCPB	Depend on the BMS

#### AC OUTPUT (BACKUP)

MAX. OUTPUT APPARENT POWER	5000VA
PEAK OUTPUT APPARENT POWER	6900VA 10sec
MAX. OUTPUT CURRENT	20A
NOMINAL OUTPUT VOLTAGE	230V
NOMINAL OUTPUT FREQUENCY	50/60Hz
OUTPUT THOV	<3% (Linear Load)

#### EFFICIENCY

MAX. PV EFFICIENCY	97.6%
EURD. PV EFFICIENCY	97.0%

#### PROTECTION

DC SWITCH	Bipolar DC Switch (125A/Pole)
ANTI-ISLANDING PROTECTION	Yes
OUTPUT OVER CURRENT	Yes
DC REVERSE POLARITY PROTECTION	Yes
STRING FAULT DETECTION	Yes
AC/DC SURGE PROTECTION	DC Type II; AC Type III
INSULATION DETECTION	Yes
AC SHORT CIRCUIT PROTECTION	Yes

#### GENERAL SPECIFICATIONS

DIMENSIONS W X H X D	540 x 590 x 240mm 21.3 x 23.2 x 9.5in
WEIGHT	32kg (70.5lbs)
OPERATING TEMPERATURE RANGE	-25°C ~ +60°C (-13°F ~ 140°F)
OPERATING TEMPERATURE RANGE	<25
COOLING TYPE	Natural Convection
MAX. OPERATION ALTITUDE	2000m (6561ft)
OPERATION HUMIDITY	0-95% (No Condensation)
IP CLASS	IP65
TOPOLOGY	Battery Isolation
COMMUNICATION	RS485/CAN2.0/ WIFI/4G
DISPLAY	LCD/APP
CERTIFICATION & STANDARD	IEC/EN 62109-182; IEC/EN61000-6-1; IEC/EN61000-6-2; EN61000-6-3; IEC/EN61000-6-4; IEC/EN61000-3-12; IEC60529; IEC 60068; IEC61683; IEC62116; IEC61683; IEC6127; EN50549- T; A\$ 47772; NRS 097; VDE-4R-N-4105; CEI0-21; G98; G99; C10/C11

#### BATTERY TECHNICAL SPECIFICATIONS

#### ELECTRICAL

5.12kwh
4.6kwh
90%
51.2V
125A
44.8-56.5V
<20mΩ
10000cycle

#### OPERATION

MAX. CHARGE/DISCHARGE CURRENT	50A/80A
RATED DC POWER	4096W
MAX. CHARGE/DISCHARGE POWER	2825W / 4096W
OPERATING TEMPERATURE RANGE	0°C - 50°C charging (32°F - 122°F charging) -10°C - 50°C discharging 14°F - 122°C discharging
HUMIDITY	0-95% (No condensation)

#### BMS

MODULES CONNECTION	Max. 4
CAPACITY	100-400Ah
POWER CONSUMPTION	<2W
COMMUNICATION	CAN & RS485
MONITORING PARAMETERS	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement

#### PHYSICAL

BATTERY TYPE	Nano Crystal™ (NCPB)
SYSTEM WEIGHT	54kg (119lbs)
DIMENSION (W X H X D)	540 x 490 x 240mm 21.2 x 19.3 x 9.5in
IP PROTECTION	IP65
WARRANTY	5 Year Product Warranty 10 Year Performance Warranty

#### CERTIFICATE

SAFETY(CELL)

Pack: IEC/EN 62619; UN38.3 Cell: IEC/EN 62619; UN38.3;UL1973

