

HYBRID SOLAR SYSTEM

Challenger Series

MODEL NUMBER 008-A-HYS

COMPONENT DATA

SOLAR PANELS

MAKE / MODEL	Q Cell / Q.Tron XL-G2.3 / BFG 630W
WATTAGE (STC / BSTC)	630 STC
TOTAL NUMBER OF PANELS	8

INVERTER

MAKE / MODEL	Sol-Ark / 5K-1P
MAX. ALLOWABLE DC INPUT VOLTAGE / CURRENT (FROM PV)	500 Volt / 52 Amp
MAXIMUM AC OUTPUT WITH GRID CONNECTION	4.8 kW
CONTINUOUS AC OUTPUT WITHOUT GRID CONNECTION	4.8 kW
NUMBER OF INVERTERS	1
AC VOLTAGE / PHASE / FREQUENCY	120 Volts / Single Phase / 60 Hz
DC VOLTAGE TO BATTERIES	48 Volts
RECOMMENDED OPERATING TEMPERATURE RANGE	-40 to +140 Deg. F -40 to +60 Deg. C

BATTERY & CABINET

MAKE / MODEL	SOK / SK48V100N
CHEMISTRY	Lithium Iron Phosphate (LiFePO4)
VOLTAGE	48 Volt
CAPACITY	5.1 kWh
NUMBER OF BATTERIES	2
NUMBER OF BATTERY CABINETS	1
BATTERY CABINET CLIMATE CONTROL	Insulated & Thermostatically Controlled (Heated & Fan Cooled)
BATTERY OPERATING TEMPERATURE RANGE*	-4 to +122 Deg. F -20 to +50 Deg. C

ASSEMBLED SYSTEM ELECTRICAL DATA

COMPLETE SYSTEM

RATED DC POWER	5.04 kW
DC VOLTAGE / CURRENT (COMBINED STRINGS)	192 Volts / 29.1 Amps
MAXIMUM AC OUTPUT WITH GRID CONNECTION	4.8 kW
CONTINUOUS AC OUTPUT WITHOUT GRID CONNECTION	4.8 kW

AC VOLTAGE / MAX CURRENT (COMBINED INVERTERS, IF APPLICABLE)	120 Volts @ 40.0 Amps
PHASE / FREQUENCY	Single Phase / 60 Hz
BATTERY BANK DC VOLTAGE	48 Volts
TOTAL BATTERY CAPACITY	10.2 kWh

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