



# Q3POWER

ENERGY INDEPENDENCE

## SOLAR THERMAL MICROGRIDS

EXCLUSIVELY ENGINEERED IN THE USA (NC & CO)

### EXECUTIVE SUMMARY

## A Permanent Solution to Grid Instability.

"Proprietary solar thermal technology that generates electricity on demand, day or night."

Q3 Power leverages high-fidelity parabolic concentration and proprietary PCM storage to provide consistent, decentralized power. Our systems eliminate intermittency and ensure 24/7/365 baseload reliability.

### SYSTEM PARAMETERS

NOMINAL BASELOAD	6.0 MW
DAILY ENERGY YIELD	144.0 MWh
TROUGH FOOTPRINT	24'W x 160'L
OPERATIONAL HEIGHT	18' Max
UNIT ORIGIN	USA (NC/CO)
LIFECYCLE RATING	250k Cycles



**CAT 5 HURRICANE**  
CERTIFIED GRADE



**ENERGY SOVEREIGNTY**  
BTM SECURE CONTROL

### TECHNOLOGY LIFECYCLE

#### 01. CAPTURE

High-efficiency parabolic solar troughs concentrate thermal energy to a singular focal point.

#### 02. STORE

Proprietary PCM Reservoir preserves heat for immediate or delayed electricity generation.

#### 03. CONVERT

Thermal energy is converted to stable, conditioned baseload AC power for any power need.

### STRATEGIC APPLICATION PROFILES

#### DC-01

#### DATA CENTERS

Engineered for 24/7/365 uptime. Provides scalable demand support via 100% solar input. Uninterruptible behind-the-meter source.

- ✓ MULTI-SUBSTATION MATRIX
- ✓ ZERO GRID INTERRUPTION

#### US-02

#### UTILITY DISPATCH

Dispatches high-load energy during 4PM-8PM peaks when PV/Wind assets drop off. Standalone dispatch protocol.

- ✓ FAST DEMAND RESPONSE
- ✓ HIGH VOLTAGE CONNECT

#### CI-03

#### COMMERCIAL BTM

Unlocks stalled commercial sites with utility caps. PPA models allow inclusive lease rates and increased NOI.

- ✓ PPA REVENUE READY
- ✓ INCREMENTAL SCALING

### OPERATIONAL ROADMAP

#### 01 FEASIBILITY

Site footprint & load profile analysis.

#### 02 LOGISTICS

USA Mfg window. Standard 4-6 month lead.

#### 03 COMMISSIONING

Rapid 15-45 day commissioning onsite.

## USA ORIGIN

MADE IN NC & CO FACILITIES

NON-PERMANENT STRUCTURAL DESIGN.

PROPRIETARY CONCENTRATION IP.  
ZERO LIGHT/HEAT LEAKAGE.