CVC ENERGY

TECHNICAL PARAMETERS

Firefly Pro 6-15kVA

Three-Phase Hybrid Inverter

PROJECT SELECTION SHEET

Technical Parameters and Project Matching

A concise parameter reference for installers, solar contractors and regional buyers preparing a three-phase solar-storage inquiry.

Product range	Hybrid6KH3 / 8KH3 / 10KH3 / 12KH3 / 15KH3
Rated AC output	6,000VA to 15,000VA
Battery side	125-600V listed range; 50A maximum charge/discharge current
PV side	1,000V maximum PV input; 2 MPPTs
Use	Preliminary project screening and RFQ preparation

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Source: Tecloman Firefly Pro product material supplied to CVC

01 / PRODUCT RANGE

6-15kVA model comparison

Use the rated output, PV design and battery-side operating range together. Do not select a model from capacity alone.

Model	Rated AC output	Maximum AC output	Maximum DC input	Full-load MPPT voltage	Weight
Hybrid6KH3	6,000VA	6,600W	9,000W	250-850V	30kg
Hybrid8KH3	8,000VA	8,800W	12,000W	330-850V	30kg
Hybrid10KH3	10,000VA	11,000W	15,000W	430-850V	31kg
Hybrid12KH3	12,000VA	13,200W	18,000W	510-850V	32kg
Hybrid15KH3	15,000VA	16,500W	22,500W	620-850V	34kg

How to use the table

First identify the project load and backup boundary. Then check whether the PV strings can operate inside the stated MPPT window and whether the selected battery can work inside the listed voltage and current range.

02 / TECHNICAL PARAMETERS

Common configuration values

These values apply to the Firefly Pro Hybrid6KH3-15KH3 range as listed in the source product material.

Parameter	Listed value
Battery voltage range	125-600V
Battery operating voltage range	150-550V
Maximum / rated battery charge-discharge current	50A / 40A
BMS communication	RS485, CAN
PV maximum voltage	1,000V
PV MPPT range / start-up voltage	180-850V / 125V
MPPT / strings	2 MPPT; 1/1 strings for 6-12KH3, 2/2 for 15KH3
AC grid	380/400V, 3W+N+PE, 50/60Hz
Enclosure / cooling	IP65 / natural cooling
Operating temperature	-35 to 60 C
Installation / dimensions	Wall mounted / 530 x 560 x 220mm
Monitoring listed in source material	LCD/APP; WiFi/GPRS/4G

03 / PROJECT MATCHING

Information to send before quotation

A complete project input lets CVC coordinate a product-matching and quotation discussion with relevant supply resources.

1 **Installation country and grid**

State country, nominal voltage, frequency and any project-specific grid requirement.

2 **Three-phase load and backup boundary**

Provide load by phase, critical circuits and motor/compressor start-up needs.

3 **PV design**

Provide string Voc, expected operating voltage, number of strings and tracker allocation.

4 **Battery configuration**

Provide candidate model, operating voltage, capacity and BMS interface.

5 **Required project documents**

State customer, installer or tender documentation requirements.

6 **Commercial scope**

State sample quantity, expected first order and delivery timing.

CVC coordination scope

CVC coordinates the product-matching and quotation process with relevant supply resources. The quotation record should identify the selected model, applicable configuration and project-specific document route.