

/ Perfect Welding / Solar Energy / Perfect Charging



FRONIUS Solar.Configurator 4.0

2021-12-02_UCLH Podium x4



CONTACT

Paul Fullbrook

E-mail: paul.fullbrook@mitie.com

CUSTOMER DATA

UCLH Podium x3

PROJECT

Country	United Kingdom
Project name	2021-12-02_UCLH Podium x4

PV MODULE

Modul manufacturer	SOLARWATT
Model	SOLARWATT Panel vision H 3.0 pure-365
Min. / Max. module temperature	-10 °C / 70 °C
Add bifacial module gain	0%

INVERTER

Inverter type	Symo 20.0-3-M
---------------	---------------

SUMMARY

Inverter ratio	111%	
Pmpp at 25 °C	22.63 kWp	
MPPT	PV1: 2x21	PV2: 1x20
Current Factor	1.00	

MPPT DETAILS

	PV1	PV2
String (str. x mod.)	2 x 21	1 x 20
Isc at 25 °C	22.38 A	11.19 A
Umpv at 70 °C	619.38 V	589.88 V
Uoc at -10 °C	946.96 V	901.87 V
Umpv at 25 °C	724.50 V	690.00 V
Pmpp at 25 °C	15.33 kWp	7.30 kWp
String fuses required	no	no
String combiner required	no	no
Loss of yield	no	no

PV MODULE

Modul manufacturer	SOLARWATT
Model	SOLARWATT Panel vision H 3.0 pure-365
Open circuit voltage	41.20 V
Short circuit current	11.19 A
MPP voltage at 25° C	34.50 V
MPP current at 25 °C	10.66 A
MPP power at 25 °C	365.00 W
Max. system voltage	1,000.00 V
Temp. Coef. open circuit voltage	-0.270000 %/C
	-0.111240 V/C
Temp. Coef. short-circuit current	0.040000 %/C
	0.004476 A/C
Temp. Coef. MPP power	-0.370000 %/C
	-1.350500 W/C
Cell technology	Monocrystalline
Max. reverse current	20.00 A
Dimensions (H x W x D)	1,780x1,052x40 mm
Earthing recommendation	no

INVERTER

Inverter type	Symo 20.0-3-M
INPUT	
Number of MPP trackers	2
Usable MPP voltage range	200 V ... 800 V
Max. input voltage	1,000 V
Maximum array short circuit current	33.0 A / 27.0 A
Maximum array power	49.5 A / 40.5 A
Maximum array power	30,000 Wp
OUTPUT	
AC Rated power	20,000 W
AC Maximum Output power	20,000 VA
Minimum cosphi	0.10
3-phase	yes
Euro. Effectiveness	97.9 %
Maximum Efficiency	98.1 %
GENERAL	
Dimensions (H x W x D)	725 x 510 x 225 mm
Weight	43.4 kg
Protection degree	IP 66
Ambient temperature range	-40 °C ... 60 °C