

Package ‘microinverterdata’

October 2, 2024

Type Package

Title Collect your Microinverter Data

Version 0.1.0

Description Collect and normalize local microinverter energy and power production data through off-cloud API requests. Currently supports 'APSystems' microinverters.

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BugReports <https://github.com/camembr/microinverterdata/issues>

URL <https://camembr.github.io/microinverterdata/>

Encoding UTF-8

Imports cli, dplyr, glue, httr2, purrr, readr, rlang, tidyr, units

RoxygenNote 7.3.2

Suggests httpstest2, knitr, lubridate, pins, rmarkdown, tibble, testthat (>= 3.0.0)

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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get_alarm	<i>Get inverter device alarms</i>
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Description

Get inverter device alarms

Usage

```
get_alarm(device_ip, model = "APSystems")
```

Arguments

device_ip	list or vector of devices IP address
model	the inverter device model. Currently only "APSystems" is supported.

Value

a dataframe with one row of device information per 'device_id' answering the query.

Examples

```
## Not run:  
get_alarm(c("192.168.0.12", "192.168.0.230"))  
  
## End(Not run)
```

get_device_info	<i>Get inverter device information</i>
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Description

Get inverter device information

Usage

```
get_device_info(device_ip, model = "APSystems")
```

Arguments

device_ip	list or vector of devices IP address
model	the inverter device model. Currently only "APSystems" is supported.

Value

a data-frame with one row of device information per 'device_id' answering the query.

Examples

```
## Not run:
get_device_info(c("192.168.0.12", "192.168.0.230"))

## End(Not run)
```

get_output_data	<i>Get inverter output data</i>
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Description

Get inverter output data

Usage

```
get_output_data(device_ip, model = "APSystems")
```

Arguments

device_ip list or vector of devices IP address
 model the inverter device model. Currently only "APSystems" is supported.

Value

a dataframe with one row of device output power and energy per 'device_id' / 'inverter' combination.

Examples

```
## Not run:
get_output_data(c("192.168.0.12", "192.168.0.230"))

## End(Not run)
```

query_ap_device	<i>AP System single device query</i>
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Description

AP System single device query

Usage

```
query_ap_device(device_ip, query)
```

Arguments

device_ip IP address of the APSystem device
 query the API query string

Value

a data-frame with a 'device_id' column and the '\$data' turned into as many columns as expected

Examples

```
## Not run:
query_ap_device(device_ip = "192.168.0.234", query = "getDeviceInfo")

## End(Not run)
```

query_ap_devices	<i>AP System multi-device query</i>
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Description

AP System multi-device query

Usage

```
query_ap_devices(device_ip, query)
```

Arguments

device_ip list or vector of each APSystem device IP address
 query the API query string

Value

a data-frame with a row for each 'device_id', and the '\$data' turned into as many columns as expected

Examples

```
## Not run:
query_ap_devices(device_ip = c("192.168.0.234", "192.168.0.235"),
                 query = "getDeviceInfo"
                 )

## End(Not run)
```

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