



## Commercial status

Discontinued on: 14 January 2021

To be end-of-service on: 31 December 2030

! To be discontinued

## Overview

|           |                              |
|-----------|------------------------------|
| Lead time | Usually Ships within 2 Weeks |
|-----------|------------------------------|

## General

|                                     |   |
|-------------------------------------|---|
| Provided equipment                  | Battery modules ship installed<br>Bolt down brackets<br>CD with software<br>Installation guide<br>Network management card<br>Power modules ship installed<br>Smart UPS signalling RS-232 cable<br>Start-up service<br>User manual |
| Performance multiplier              | 1   |
| Number of tare power                | 300 W   |
| Number of power module free slots   | 0   |
| Number of power module filled slots | 0   |
| Redundant                           | No  |
| UPS size                            | WS  |
| Value multiplier                    | 1   |

## Physical

|                     |                    |
|---------------------|--------------------|
| Depth               | 84.2 cm            |
| Height              | 149 cm             |
| Mounting preference | No preference      |
| Net weight          | 443 kg             |
| Mounting mode       | Not rack-mountable |
| Two post mountable  | 0                  |
| USB compatible      | No                 |
| Width               | 52.3 cm            |

## Input

|                   |                         |
|-------------------|-------------------------|
| Network frequency | 40...70 Hz auto-sensing |
|-------------------|-------------------------|

|                            |   |
|----------------------------|---|
| Number of input connectors | 1 hard wire 5-wire (3P + N + E)             |
| Input voltage limits       | 340...460 V adjustable 400 V<br>304...477 V |
| Maximum input current      | 27 A  |
| Switching current capacity | 35 A  |
| Input harmonic distortion  | Less than 5 % for full load                 |
| Input protection type      | 3-pole circuit breaker                      |
| Input voltage              | 400 V 3 phases                              |
| Inrush current             | 200 A peak                                  |
| Load power factor          | 0.5 leading to 0.5 lagging                  |
| Cos phi                    | 0.98  |

## Output

|                                    |  |
|------------------------------------|--|
| Rated power in W                   | 16000 W  |
| Maximum configurable power in W    | 16000 W  |
| Harmonic distortion                | Less than 5 %  |
| Output frequency                   | 47...53 Hz for 50 Hz nominal sync to mains<br>50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised   |
| Outputvolt_other                   | 380 V<br>415 V   |
| Crest factor                       | Unlimited  |
| UPS type                           | Double conversion online   |
| Wave type                          | Sine wave  |
| Connections - terminals            | 1 screw terminals  |
| Output connector type              | Hard wire 4-wire (3P + E) 1<br>Hard wire 5-wire (3P + N + E) 1   |
| Output voltage tolerance           | +/- 1% static and +/- 5% at 100% load step   |
| Output harmonic distortion         | < 2% for 0 to 100% linear load and < 5% for full non-linear load   |
| Output overload operation          | 10 minutes at 125% and 60 seconds at 150%  |
| Required output current protection | 35 A   |
| Bypass type                        | Built-in maintenance bypass<br>Built-in static bypass  |
| Curve equation                     | Efficiency   |
| Curve fixed loss                   | 0.0077   |
| Curve load maximum                 | 100 %  |
| Curve load minimum                 | 1 %  |
| Curve proportional loss            | 0.024  |
| Curve square loss                  | 0.0166   |
| Curve X-axis maximum               | 100 %  |
| Curve test cond ID                 | Curve fit to measured efficiency data. All measurements taken in normal operating mode, at typical environmental conditions, with nominal electrical input and balanced PF = 0.8 output. |
| Curve X-axis minimum               | 0 %  |
| Curve X-axis title                 | Load   |
| Curve X-axis units                 | Percentage   |
| Curve Y-axis maximum               | 100 %  |
| Curve Y-axis minimum               | 50 %   |
| Curve Y-axis title                 | Efficiency   |
| Curve Y-axis units                 | Percentage   |
| Efficiency                         | 94.9 % (in battery operation)  |
| Graph display                      | 1  |
| Output voltage                     | 400 V 3 phases   |
| Maximum configurable power in VA   | 20000 VA   |
| Rated power in VA                  | 20000 VA   |

## Conformance

|                        |   |
|------------------------|---|
| Product certifications | CE  |
| Standards              | EN 50091-2<br>EN/IEC 62040-3<br>EN/IEC 62040-1-1<br>IEC 61000-3-2<br>IEC 61000-3-3<br>ISO 14001<br>ISO 9001<br>VFI-SS-111 |

## Environmental

|                                       |                   |
|---------------------------------------|-------------------|
| Ambient air temperature for operation | 0...40 °C         |
| Relative humidity                     | 0...95 %          |
| Operating altitude                    | 0...3333 ft       |
| Ambient air temperature for storage   | -15...45 °C       |
| Storage Relative Humidity             | 0...95 %          |
| Storage altitude                      | 0.00...15240.00 m |
| Acoustic level                        | 51.3 dBA          |
| Heat dissipation                      | 2620 Btu/h        |
| Show note OP temperature              | No                |
| IP degree of protection               | IP51              |

## Batteries & Runtime

|                                |  |
|--------------------------------|--|
| Battery type                   | Lead-acid battery  |
| Number of battery filled slots | 2  |
| Number of battery free slots   | 2  |
| Battery recharge time          | 5 h  |
| Additional information         | Configurable for 380 : 400 or 415 V 3 Phase nominal output voltage   |
| Liquid value                   | 0  |
| Battery voltage                | +/- 192 V (split battery referenced to neutral)  |
| Discharge battery voltage      | +/- 154 V  |
| Max current discharge          | 109.7 A  |
| Battery overload operation     | 10 minutes at 125% and 60 seconds at 150%  |
| Battery curve                  | B  |
| Battery charger power          | 995 W rated  |
| Battery power in VAh           | 4983 VAh runtime   |
| Battery life                   | 3...5 year(s)  |
| Battery option                 | SYBT4 1 7424 VAh<br>SYBT4 2 9810 VAh<br>G35TBXR6B6 1 19620 VAh<br>G35TBXR6B6 2 34413 VAh<br>G35TBXR6B6 3 49383 VAh<br>G35TBXR6B6 4 64557 VAh |
| Battery graph comments         | Estimated runtimes based on battery vendor data, at typical environmental conditions, with no electrical input and balanced PF = 0.8 output. |
| Extended runtime               | 0  |

## Communications & Management

|                     |   |
|---------------------|---|
| Free slots          | 0   |
| Preinstalled device | Network management card 2 with environmental monitoring                     |
| Control panel       | Multifunction LCD status and control console                                |
| Alarm               | Alarm when on battery : distinctive low battery alarm : configurable delays |
| Emergency power off | Yes   |

Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 474 kg   |
| Package 1 Height | 164.3 cm |
| Package 1 width  | 65 cm    |
| Package 1 Length | 106.2 cm |

Offer Sustainability

|                   |   |
|-------------------|---|
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
|-------------------|---|

Contractual warranty

|          |                          |
|----------|--------------------------|
| Warranty | 1 year repair or replace |
|----------|--------------------------|