

# Product data sheet

## Characteristics

# SUVTP20KH4B4S

APC Smart-UPS VT 20kVA 400V w/4 Batt. Mod.,  
Start-Up 5X8, Internal Maint Bypass, Parallel  
Capability



## 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 CD with software Network management card Power modules ship installed User manual Bolt down brackets Installation guide Start up included
Performance multiplier	1
Number of tare power	230 W
Number of power module free slots	0
Number of power module filled slots	0
Redundant	Yes
Size UPS version	Internetworking Server Telecom
UPS size	L
Value multiplier	1

## Physical

Colour	Black
Depth	84.2 cm
Height	149 cm
Mounting location	Front
Mounting preference	No preference
Net weight	599.09 kg
Mounting mode	Not rack-mountable
Two post mountable	0
USB compatible	No

Width	52.3 cm
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## Input

Network frequency	40...70 Hz auto-sensing
Number of input connectors	1 hard wire 5-wire (3P + N + E)
Input voltage limits	304...477 V
Inputvolt_other	380 V 415 V
Maximum input current	27 A
Switching current capacity	50 A
Input voltage	400 V 3 phases
Cos phi	0.98

## Output

Rated power in W	16000 W
Maximum configurable power in W	16000 W
Harmonic distortion	Less than 5 % at full load
Output frequency	47...53 Hz for 50 Hz nominal sync to mains 50 Hz +/- 0.1 % for 50 Hz nominal unsynchronised
Outputvolt_other	380 V 415 V
Crest factor	3 : 1
UPS type	Double conversion online
Wave type	Sine wave
Connections - terminals	1 screw terminals
Output connector type	Hard wire 4-wire (3P + E) 1 Hard wire 5-wire (3P + N + E) 1
Bypass type	Built-in maintenance bypass 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
Graph display	1
Maximum output current	32 A
Output voltage	400 V 3 phases
Maximum configurable power in VA	20000 VA
Rated power in VA	20000 VA

## Conformance

Product certifications	C-Tick CE
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## RCM

Standards	EN 50091-2 EN/IEC 62040-3 IEC 61000-3-2 IEC 61000-3-3 ISO 14001 ISO 9001 VFI-SS-111
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## Environmental

Ambient air temperature for operation	0...40 °C
Relative humidity	0...95 %
Operating altitude	0...3333 ft
Ambient air temperature for storage	-50...40 °C
Storage Relative Humidity	0...95 %
Storage altitude	0.00...15240.00 m
Acoustic level	51.3 dBA
Heat dissipation	3112 Btu/h
Show note OP temperature	No
IP degree of protection	IP20

## Batteries &amp; Runtime

Battery type	VRLA
Number of battery filled slots	4
Number of battery free slots	0
Battery recharge time	5 h
Number of battery replacement quantity	4
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
Battery curve	B
Battery charger power	1958 W rated
Battery power in VAH	9810 VAh runtime
Battery life	3...5 year(s)
Battery option	SUVTXR2B6S 1 14715 VAh SUVTXR6B6S 1 24526 VAh SUVTXR6B6S 2 39329 VAh SUVTXR6B6S 3 54321 VAh SUVTXR6B6S 4 69523 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	1

## Communications &amp; Management

Free slots	0
Preinstalled device	Network management card 2 with environmental monitoring
Control panel	Multifunction LCD status and control console
Alarm	Audible and visible alarms prioritized by severity
Emergency power off	Yes

## Packing Units

Package 1 Weight	630 kg
Package 1 Height	164.3 cm

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Package 1 width	65 cm
Package 1 Length	106.2 cm
Number of Units in Package 3	1

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**Offer Sustainability**

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EU RoHS Directive	Under investigation
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**Contractual warranty**

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Warranty	1 year repair or replace, Start-Up Service
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