## **Indoor Integrated Power System**

### MTS9604B-N20B1

# HUAWEI

### Introduction

MTS9604B-N20B1 is a new type of AC/DC indoor integrated power system designed by Huawei with the features of end-to-end high efficiency, supporting modular evolution, full digitalization and intelligentization. It is suitable for enterprise indoor sites.

#### **Features**

- System-level efficiency and energy saving: efficient conversion,
   efficient power distribution, and efficient energy storage
- Supports smooth evolution: the innovative architecture design enables smooth expansion of rectifier and power distribution
- Intelligent management: online remote maintenance reduces site visits and maintenance costs



## **Application Scenarios**

Enterprise indoor telecom sites

# Specifications

Product Type		MTS9604B-N20B1		
	Dimension (W × D × H)	600mm × 600mm × 2000mm		
System	Weight	≤120kg (without rectifier modules or batteries)		
	Cooling mode	Natural cooling		
	Installation mode	Ground installation (antistatic floor or ground installation)		
	Cabling mode	Top inlet and top outlet		
	Maintenance mode	Front operation and maintenance; support installation against the wall		
	Protection level	IP20		
	User space	12U		
	Battery space	4 sets of ESM-48100B1 BoostLi		
	Number of module slots *	8		
AC Distribution	Input mode	220VAC/380VAC three-phase four-wire		
	Input voltage	Rectifier support 85VAC - 300VAC		
	Input frequency	45Hz - 66Hz, rated value: 50Hz/60Hz		
	Input capacity	$1 \times 100$ A/3P MCB		
	AC output	1 $ imes$ 32A/3P MCB (support 5G Indoor Blade Power access)		
	SPD	Nominal lightning strike discharge current 20kA (8/20µs); Maximum lightning strike discharge current 40kA (8/20µs)		
	Output voltage	Default: -57VDC constant voltage (adjustable voltage range: -48VDC to -57VDC		
DC Distribution	Maximum capacity	24kW		
	Battery branch	4×125A/1P MCB		
	LLVD branch	2 × 100A/1P MCB, 4 × 63A/1P MCB, 2 × 32A/1P MCB, 2×16A/1P MCB, 2 × 100A (fuse)		
	BLVD branch	2 × 100A/1P MCB, 2 × 63A/1P MCB, 2 × 16A/1P MCB, 2 × 10A/1P MCB		
	SPD	Nominal lightning strike discharge current: Differential mode - 10kA (8/20µs); Common mode - 20kA (8/20µs)		
Rectifier	Model	R4875G1		
	Max. output power	4000W (176VAC - 300VAC) 4000W - 1600W (175VAC - 85VAC Linear derating)		
	Efficiency	Maximum 97% ≥ 96% (230VAC, 30% - 80% load rate)		
	Dimension (W × D × H)	105mm $ imes$ 281mm $ imes$ 40.8mm		
	Weight	≤2.2kg		
Controller	Signal input	5 Al (Battery temp., ambient temp., ambient humidity, temp1, temp.2) 9 Dl (Water, smoke, gate, 6 common Dl)		
	Alarm output	8 dry contacts		
	Communication port	RS232, RS485, FE		
	Storage capacity	Up to 1000 historical records and alarm		
	Display mode	LCD		
	Operating temperature	-10°C to +45°C (including batteries)		
<b>.</b>	Storage temperature	-40°C to +70°C		
Environment	Operating humidity	5% - 95% (non-condensing)		
	Altitude	0 - 4000m (High temperature derating in the environment of 2000m - 4000m, the operating temperature is reduced by $1^{\circ}$ C for every 200m increase)		

<sup>\*</sup> Can be deleted when communicating with customers

# **Specifications – Optional Accessories**

	Optional Hardware	5G Indoor Blade (AC Version, 2U height)	Maximum support 1pcs, with 9kW rectifier & maximum 6kW load capacity & $5\times40$ A FUSE	<b>Note:</b> Optionally installed when power capacity and DC distribution are insufficient, to realize fast deployment of one band of 5G without modernization	
		5G Indoor Blade (DC Version, 1U height)	Maximum support 1pcs, with maximum 6kW load capacity & $5\times40\text{A}$ FUSE	<b>Note:</b> Optionally installed when power capacity is enough, but need provide power for large-power remote AAU/RRU	
	BoostLi lithium battery Maximum support 3 sets of ESM-48100B1 BoostLi				
		DC Distribution Expansion Box (DCDB48-200-16B)	Secondary load: $6 \times 63A$ MCB, $4 \times 32A$ MCB Important load: $2 \times 32A$ MCB, $2 \times 20A$ MCB, $2 \times 16A$ MCB	Note: 1U heigh	t, 19-inch rack installation, used for DC
	Optional Software Features	Intelligent boosting	Support -57VDC constant voltage output by software configuration, suitable for high power load and long distance power supply		Note: must integrate with BoostLi lithium battery
		Intelligent peak shaving	When the peak load exceeds commercial power supply, the power system can control the battery to discharge and share the burden, reducing the peak load of grid power		
		Intelligent staggering power	Grid adaptive adjustment, make full use of the difference between peak and valley power price, reduce electric cost		
		Intelligent management	Support NetEco, can perform statistical analysis on energy efficiency of single station and the whole network, can carry out targeted upgrades and improve the operation efficiency, reduce maintenance cost		

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