May 20, 2024

186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000

Delivering leading edge, innovative power solutions for more than 30 years....

## Model:GT-86200-20PD-USBC-W2

GT-86200-20PD-USBC-W2	
Information	
Model Number	GT-86200-20PD-USBC-W2
Description	GT-86200-20PD-USBC-W2, ICT/ITE Power Supply, Wall Plug-in, USB Adaptive Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, North America Blades Class II, (2) Conductors, Output Rating: 20 Watts, Power rating with convection cooling (W) , 5,9,12V in 0.1V increments, Approvals:
Model Picture	
Agency Documents	
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000MNnEGEA1
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000MNnEGEA1
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf



186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000

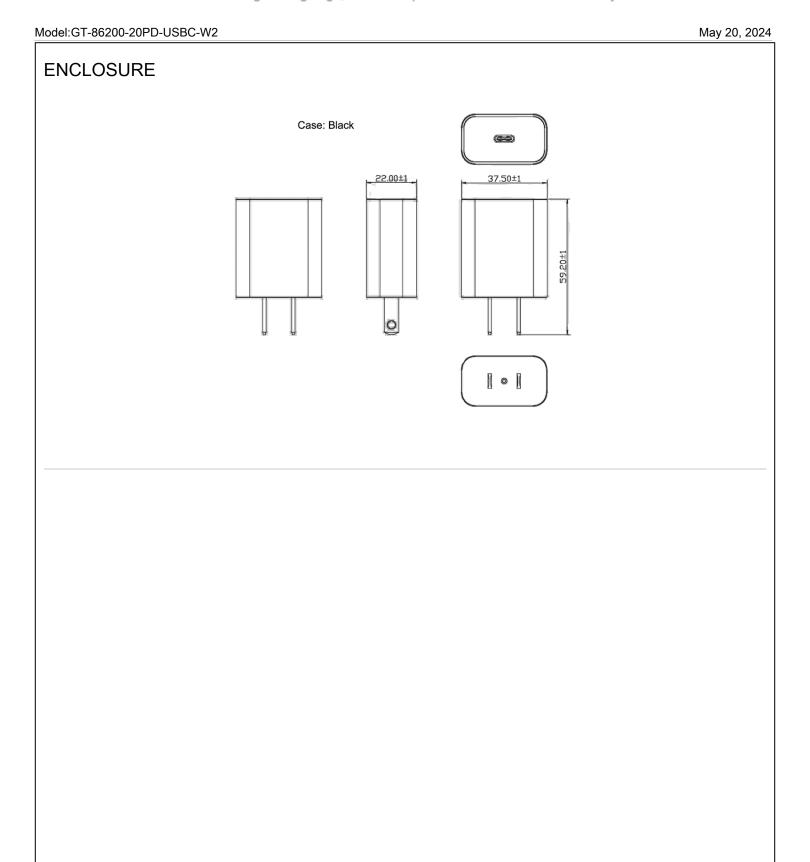
Delivering leading edge, innovative power solutions for more than 30 years....

### Model:GT-86200-20PD-USBC-W2

May 20, 2024

MODEL PARAMETERS	
Туре	Wall Plug-in
Technology	USB Adaptive Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.6A
Wattage (W)	20.0
Vout Range (V)	5,9,12
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	Indoor Use
Size (mm)	22.0 x 59.2 x 37.5









186 Veterans Dr, Northvale NJ 07647, USA 1-201-784-1000 www.globtek.com

http://www.globtek.com/iso-certificates.php

Delivering leading edge, innovative power solutions for more than 30 years....

#### Model:GT-86200-20PD-USBC-W2

May 20, 2024

RATING TABLE				
Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-86200-20PD-1505-USBC-W2	5V@3A V	3	15.00	RFQ

Model:GT-86200-20PD-USBC-W2	May 20, 2024

USB Power Delivery (PD) 2.0/3.0 + PPS
Standard option: 5V,, 9V, 12V,
Custom fixed PDOs available upon request. PDO1 must be 5V. PDO2 through PDO7 ma be set to any custom voltage from 5V to 12V
In critical applications, the use of a non-authorized USB PD power supply may pose a substantial risk. Power supply authorization may be implemented using USB PD Vendor Defined Messages (VDMs) to prevent system operation with non-authorized power sources. Please see our article <a href="Product Security and Risk Mitigation for USB Power Delivery">Product Security and Risk Mitigation for USB Power Delivery</a> (PD) Based Systems for additional information.
Specified: 90-264VAC, Nameplate: 100-240VAC 100% rated load current for 90-264VAC 85% rated load current for 85-264VAC 100% rated load current for 110-370VDC
Specified: 47-63Hz, Nameplate: 50-60Hz
< 75mW @ 230VAC (EU CoC Tier 2 compliant)
< 30A @ 115VAC, < 60A @ 230VAC (cold start)
DoE Efficiency Level VI and CoC Tier 2 compliant (tested according to DoE 10 CFR Part 430, Subpart B, Appendix Z)
< 1 second @ 115VAC and full load
± 4% max. (measured at the end of a 1m long output cord)
± 0.5% typ. (measured at the end of a 1m long output cord)
100mV max. (using a 47 $\mu$ F low-ESR electrolytic cap + 0.1 $\mu$ F ceramic cap, measured @ 20MHz BW, at the output connector)
5% max. deviation, 1ms max. recovery time (with 25% load step),
8ms min. (100VAC and full load)
Green LED



**G** GlobTek Inc.®

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GT-86200-20PD-USBC-W2 May 20, 2024

lodel:GT-86200-20PD-USBC-W2	May 20, 20	
Over-Voltage Protection:	Level 1: 110-130%, Auto-recovery, adaptive to selected PDO Level 2: 24-28V, Latched off, cycle AC to reset	
Over-Current Protection:	110-130%, Auto-recovery, adaptive to selected PDO	
Short-Circuit Protection:	Auto-recovery	
Over-Temperature Protection:	Auto-recovery	
Environmental		
MTBF:	1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3)	
Operating Temperature:	-10°C to 40°C (full load)	
Storage Temperature:	-40°C to 80°C	
Humidity:	0% to 95% relative humidity, non-condensing	
Altitude	5000m	
Cooling:	Convection	
RoHS:	Complies with EU 2011/65/EU and China SJ/T 11363-2006	
Safety		
Dielectric Withstand Voltage:	4000VAC or 5656VDC from input to output 10mA, 1 minute	
Touch Current:	NC: 80μA max. SFC: 400μA max.	
Earth Leakage Current	300µA max. NC/SFC (N/A for 2-conductor input models)	
Means of Protection:	2 x MOPP	
Output Isolation Options:	-Q suffix: Class II 2-conductor (interchangeable blades) -T2 suffix: Class II 2-conductor -T3 suffix: Class II, with functional earth (FE) Class I, earth wire connected directly to output negative	
Note 3:	Review output isolation options with our article: PSU Isolation and Identify	
EMC		
Applicable Standards:	Medical: EN 60601-1-2 (4e) Emissions: EN55032, EN61000-6-3, EN61000-6-4 Immunity: EN55024, EN61000-6-1 (4e), EN61000-6-2 (4e)	
Conducted Emissions:	Class B, FCC Part 15, Class B (with resistive load)	
Radiated Emissions:	Class B, FCC Part 15, Class B (with resistive load)	
Harmonic Current Voltage Distortion:	EN61000-3-2, Class A	
namonic current voltage distortion.	EN61000-3-2, Class A	
	·	
Voltage Fluctuations/Flicker:	EN61000-3-3	
Voltage Fluctuations/Flicker: Electrostatic Discharge (ESD) Immunity:	EN61000-3-3 EN61000-4-2, 10KV contact discharge, 18KV air discharge, Criterion A	
Voltage Fluctuations/Flicker: Electrostatic Discharge (ESD) Immunity: Radiated RF Immunity: EFT/Burst Immunity:	EN61000-3-3	



Delivering leading edge, innovative power solutions for more than 30 years....

belivering leading edge, innevative power solutions for more than every edis....

Conducted RF Immunity:	EN61000-4-6, 10VRMS, 80% 1KHz AM, Criterion A
Voltage Dip Immunity:	EN61000-4-11, Criterion B/C
	When a Class II power supply is connected to an earth-referenced system,
	conducted/radiated EMI levels tend to increase since the distant earth connection creates
Note 4:	a long return path for common-mode EMI currents. This model includes an output
	common-mode choke to help alleviate system-level EMI issues. This choke can be
	removed for cost-sensitive applications.
Enclosure	
Housing:	High impact plastic, 94V0 polycarbonate, non-vented
Markings:	Adhesive backed label or laser engraving
Security  USB Power Delivery:	Two non-standard voltage profiles are included: 5.8V and 15.1V. System designers may use these non-standard profiles to reduce the likelihood of system operation with non-GlobTek power supplies. 12.0V is also not standard, but is often included in other power supplies.
	The power supply will respond to a USB PD "Discover Identity" VDM with 0x4754 in the "ProductID" field. USB PD host systems may check this value before initiating/allowing power negotiation.
Note 5:	These measures do not guarantee a secure implementation, and are only suggested as method of risk mitigation.
Note 6:	Please see our article Product Security and Risk Mitigation for USB Power Delivery (PD)
	Based Systems for additional information.

#### Non-standard - Contact GlobTek

- 1. Custom housing and output cord colors
- 2. Custom fixed output cord length, for applicable models (1m, 2m, 3m lengths)
- 3. Custom markings and marking methods
- 4. Custom USB PD PDOs: Output voltages selectable between 5V and 20V, in 100mV increments

May 20, 2024

40%

70

50

60

40

20%

80

50%

-20

-10

Model:GT-86200-20PD-USBC-W2



Delivering leading edge, innovative power solutions for more than 30 years....

## **DERATING CURVE Typical External Power Supply Derating Curve** (For Efficiency Level V and Efficiency Level VI Products) 100% 80% Output Power 60% Typical Level

Stated

Spec Sheet

Temp. Range

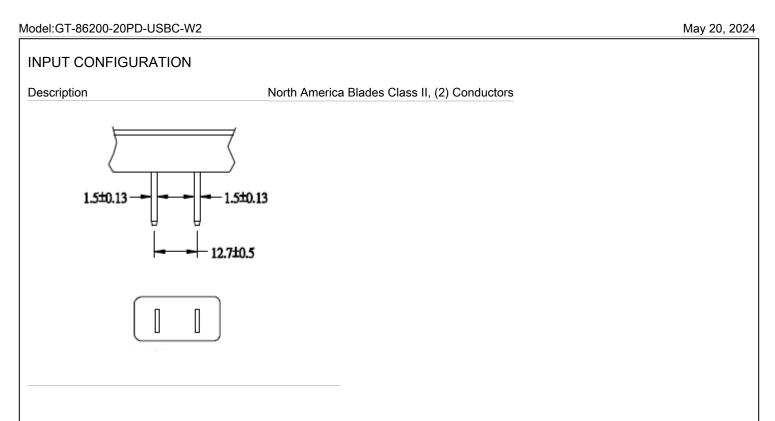
20

10

**Ambient Temperature** Celsius

30







May 20, 2024

Delivering leading edge, innovative power solutions for more than 30 years....

# Model:GT-86200-20PD-USBC-W2 **OUTPUT CONFIGURATION**

Common output connector options:







C Type (Coaxial 5.5x2.1mm plug)



K Type (Coaxial 3.5x1.3mm plug)



Locking 760k type)



LL Type (5.5x2.5mm CL Type (5.5x2.1mm Locking S761k type)





ML2 Type (Molex housing 43025-0200)



YL3 Type (KPPX-3P)



YL4 Type (KPPX-4P)



EJ1/2/3/4/5 (EIAJ RC-5320A type connectors)



MSB Type (Micro USB)



USBC Type (USB Type C)



Inquire for custom design

For a comprehensive list of options, click here

Contact GlobTek for your specific requirements or custom solutions.







**™** GlobTek Inc.®

http://www.globtek.com/iso-certificates.php

Model:GT-86200-20PD-USBC-W2	May 20, 2024
Approvals	
Logo	
	· ·