

Overview

WAGO Pro2 compact switched-mode power supplies provide a wide range of uses. These power supplies can be mounted on a 35mm DIN rail and can be configured directly via buttons on the device's face, using the WAGO USB configuration cable to connect to the integrated communication interface, or using one of the WAGO Pro2 communication modules. In addition, the WAGO Interface Configuration software (free download) can be used to record and evaluate various output parameters.

The pluggable connection technology uses WAGO CAGE CLAMP® connectors, which allow pre-wiring for quicker installations as well as quicker and easier product replacement.

For configuration, data collection, and read-out of status information, the Pro2 Power Supply can be connected to a dedicated WAGO Pro2 communication module at any time, allowing selection of the desired protocol for coupling to the automation and control system.

The LED bar chart on the front reliably indicates the current output power, as well as overloads/load reserves. Furthermore, the LEDs indicate the selected operating mode and, when needed, warnings and errors.

Features

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- · Configurable digital signal input and output, optical status indication, function keys
- · Communication interface for configuration and monitoring
- Suitable for both parallel and series operation
- Snap on communication modules (sold separately)
- Free WAGO configuration software (download only)
- 2-year warranty

Switching Power Supplies								
Part Number	Price	Output Voltage (V _{nom})	Output Current (I _{max})	Output Power (P _{max})	Weight grams [lb]	Drawing Link		
Single-Phase I	Single-Phase Input							
<u>2787-2134</u>	\$191.00	12 VDC	10A	120W	650 [1.43]	PDF		
<u>2787-2135</u>	\$312.00	IZ VDC	15A	180W	1000 [2.20]	PDF		
<u>2787-2144</u>	\$185.00		5A	120W	700 [1.54]	PDF		
<u>2787-2146</u>	\$257.00	24 VDC	10A	240W	1000 [2.20]	PDF		
<u>2787-2147</u>	\$375.00	24 VDC	20A	480W	1450 [3.19]	PDF		
<u>2787-2448</u>	\$589.00		40A	960W	1950 [4.29]	PDF		
<u>2787-2154</u>	\$298.00	48 VDC	2.5 A	120W	650 [1.43]	PDF		
<u>2787-2157</u>	\$473.00	40 VDC	10A	480W	1450 [3.19]	PDF		
Three-Phase In	put .							
<u>2787-2344</u>	\$254.00		5A	120W	650 [1.43]	PDF		
<u>2787-2346</u>	\$355.00		10A	240W	1000 [2.20]	PDF		
<u>2787-2347</u>	\$475.00	24 VDC	20A	480W	1450 [3.19]	PDF		
<u>2787-2348</u>	\$688.00		40A	960W	1980 [4.29]	PDF		
<u>2787-2357</u>	\$518.00	(0)/DO	10A	480W	1400 [3.08]	PDF		
<u>2787-2358</u>	\$809.00	48 VDC	20A	960W	1980 [4.29]	PDF		

Switching Power Supplies

48 VDC	10A	480W	1400 [3.08]	PDF	<u>2787-2348</u>
40 VDC	20A	960W	1980 [4.29]	PDF	
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tching Pov	ver Supplies	s Accesso	ry		
	De				
WAGO cable, 8	.2ft/2.5m cable lengt	h. For use with W	AGO Pro2 power s	upplies.	











Price

\$41.50

Part Number

750-923



	Input Specifications									
Part Number	Nominal Input Voltage [V _{nom}]	Voltage Range	Frequency Range	Input Current [Typ. @ full load]	Inrush Current Limitation @+25°C	Max Power Dissipation	Efficiency [Typ.]	Circuit Breaker [Minimum]		
Single-Phase	•									
<u>2787-2134</u>		90–264 VAC 130–373 VDC		≤ 1.3 A @ 110VAC 0.6 A @ 230VAC	≤ 9.6 A [after 1ms]	≤ 0.8 W [Standby] ≤ 1.6 W [No load] ≤ 10W [230 VAC; Nominal load]	93.8% @ 110VAC			
<u>2787-2135</u>		90–264 VAC 130–240 VDC		2.0 A @ 110VAC 0.88 A @ 230 VAC	≤ 11.4 A [after 1ms]	≤ 0.8 W [Standby] ≤ 2.3 W [No load] ≤ 14W [230 VAC; Nominal load]	95.3% @ 110VAC			
<u>2787-2144</u>	100-240 VAC			≤ 1A @ 240VAC ≤ 1.8 A @ 100VAC	≤ 9A [after 1ms]	≤ 1W [Standby] ≤ 2W [No load] ≤ 10W [230 VAC; Nominal load]	93% @ 110VAC 93.8% @ 230VAC			
<u>2787-2146</u>		<u>46</u>	90–264 VAC 130–373 VDC	50-60 Hz	≤ 1.2 A @ 240VAC ≤ 2.7 A @ 100VAC	≤ 11A [after 1ms]	≤ 1W [Standby] ≤ 2.2 W [No load] ≤ 12W [230 VAC; Nominal load]	93.5% @ 110VAC 95.2% @ 230VAC	16A	
<u>2787-2147</u>					50-00 HZ	≤ 2.2 A @ 240VAC ≤ 5.9 A @ 100VAC	≤ 12A [after 1ms]	≤ 1.3 W [Standby] ≤ 2.6 W [No load] ≤ 24W [230 VAC; Nominal load]	93.9% @ 110VAC 95.4% @ 230VAC	IOA
<u>2787-2448</u>	200-240 VAC	180–264 VAC 255–373 VDC		≤ 4.3 A @ 240VAC ≤ 5.1 A @ 200VAC	≤ 10A [after 1ms]	≤ 1.5 W [Standby]; ≤ 2.4 W [No load]; ≤ 40W [230 VAC; Nominal load]	96% @ 230VAC			
<u>2787-2154</u>		90-264 VAC	≤ 1.3 A @ 100VAC	11A [after 1ms]	≤ 0.8 W [Standby] ≤ 1.7 W [No load] ≤ 9W [230 VAC; Nominal load]	95.3% @ 110VAC				
<u>2787-2157</u>	100-270 \/A(*)		30-240 VDC	5.9 A @ 100VAC 2.2 A @ 230VAC	≤ 12A [after 1ms]	≤ 1.3 W [Standby]; ≤ 2.6 W [No load]; ≤ 24W [230 VAC; Nominal load]	95.3% @ 110VAC			
Three-Phase										
<u>2787-2344</u>		240 550 140		0.4 A @ 400VAC	≤ 15A [after 1ms]	≤ 3W [Standby] ≤ 3W [No load] ≤ 18W [400 VAC; Nominal load]	92.5% @ 400VAC			
<u>2787-2346</u>	46 47 400-500 VAC 57	340–550 VAC		0.63 A @ 400VAC	1A [after 1ms]	≤ 3W [Standby] ≤ 3W [No load] ≤ 18W [400 VAC; Nominal load]	94.1% @ 400VAC			
<u>2787-2347</u>		400-500 VAC 340–550 VAC 480–780 VDC 50-	AC 340-550 VAC 50-60 Hz	≤ 0.8 A @ 400VAC	≤ 15A	≤ 3.6 W [Standby] ≤ 4.4 W [No load]	95.9% @ 400VAC	16A		
<u>2787-2348</u>			JU-00 FIZ	≤ 1.7 A @ 400VAC	[after 1ms]	≤ 4.4 W [No load] ≤ 21W [400 VAC; Nominal load]	96.3% @ 400VAC	IUA		
<u>2787-2357</u>		340 550 \/^_		0.8 A @ 400VAC	1A [after 1ms]	≤ 3.6 W [Standby] ≤ 4.4 W [No load] ≤ 21W [400 VAC; Nominal load]	95% @ 400VAC			
<u>2787-2358</u>		340–550 VAC		1.6 A @ 400VAC	1A [after 1ms]	≤ 3.6 W [Standby] ≤ 4.4 W [No load] ≤ 21W [400 VAC; Nominal load]	96% @ 400VAC			



	Output Specifications								
Part Number	Output Voltage	Output Voltage Adj. Range	Output Current (Max.)	Power Boost (5s)	Top Boost (15ms)	Switch on Delay	Line Regulation	Load Regulation	MTBF (@ 25°C) [per IEC 61709]
Single-Phase	Single-Phase								
2787-2134	10.100		10A	15A	60A	< 2.2 sec	< 0.02 %	< 2.0 %	> 1,200,000 h
<u>2787-2135</u>	12 VDC	12–14 VDC	15A	22.5 A	90A	< 1.8 sec	< 0.02 %	< 2.5 %	> 1,200,000 h
<u>2787-2144</u>			5A	7.5 A	30A	< 2.2 sec	< 0.02 %	< 2.0 %	> 1,000,000 h
2787-2146	24 VDC	24–28 VDC	10A	15A	60A	< 1.8 sec	< 0.02 %	< 2.0 %	> 1,200,000 h
<u>2787-2147</u>	24 VDC	24-20 000	20A	30A	120A	< 1.5 sec	< 0.02 %	< 2.0 %	> 800,000 h
2787-2448			40A	60A	200A	< 1.5 sec	< 0.1 %	< 2.6 %	> 900,000 h
2787-2154			2.5 A	3.75 A	15A	< 2.2 sec	< 0.02 %	< 1.0 %	> 900,000 h
2787-2157	48 VDC	C 48–56 VDC	10A	15A	60A	< 1.5 sec	< 0.02 %	< 1.0 %	> 800,000 h
Three-Phase									
2787-2344			5A	7.5 A	30A	1.5 sec	< 0.05 %	< 2.0 %	1,400,000 h
2787-2346	24 VDC		10A	15A	60A	1.5 sec	< 2.0 %	< 2.5 %	> 1,000,000 h
2787-2347		24 VDC 24–28 VDC	20A	30A	120A	< 1.4 sec	< 0.02 %	< 2.0 %	> 800,000 h
2787-2348			40A	60A	200A	< 1.5 sec	< 0.01 %	< 0.01 %	> 800,000 h
2787-2357	48 VDC	48–56 VDC	10A	15A	60A	1.6 sec	< 0.02 %	< 1.0 %	900,000 h
2787-2358	40 000	40-00 VDC	20A	30A	100A	1.6 sec	< 0.04 %	< 2.0 %	800,000 h

General Specifications				
Temperature	Operating [ambient] -25 to 70°C [-13 to 158°F] Storage [non-operating] -40 to 85°C [-40 to 185°F]			
Humidity	5 to 96 % [no condensation permissible]			
Overload Behavior ¹	Constant Current [Factory Default], Constant Current with Latching Mode, Hiccup, Electronic Circuit Breaker, Latching Shutdown on Thermal Overload, Power Boost, Top Boost			
Status Indicators	Optical status indication [DC OK; load; warning and error states] Digital signal input and output [DI/DO]			
Overvoltage Protection	Yes			
Vibration	IEC 60068-2-6 [5 to 150Hz / 1g]			
Shock IEC 60068-2-27 [15g / 11ms]				
Enclosure Rating	IP20			
Mounting	35mm DIN rail			
Connection	Cage Clamp®			
Housing Material Metal (enclosed)				
Agency Approval	cULus File E255817, CE			

¹All functions are described in detail in the user manual.



Additional Data							
Part Number	Solid Wire Size						
Parl Number	Input	Output	Strip Length				
<u>2787-2134</u>							
<u>2787-2135</u>	-	0.08 - 2.5 mm ²	Input/Output				
2787-2144		[28 -12 AWG]	8-9mm [0.31 - 0.35 in]				
<u>2787-2146</u>	-						
<u>2787-2147</u>		0.50 - 10 mm²	Input 8-9mm [0.31 - 0.35 in]				
<u>2787-2448</u>		[20 -12 AWG]	Output 13-15mm [0.51 - 0.59 in]				
<u>2787-2154</u>	0.00 0.5 mm²	0.08 - 2.5 mm² [28 -12 AWG]	Input/Output 8-9mm [0.31 - 0.35 in]				
<u>2787-2157</u>	0.08 - 2.5 mm² [28 -12 AWG]	0.50 - 10 mm² [20 -12 AWG]	Input 8-9mm [0.31 - 0.35 in] Output 13-15mm [0.51 - 0.59 in]				
<u>2787-2344</u>		0.08 - 2.5 mm²	Input/Output 8-9mm				
<u>2787-2346</u>		28 -12 AWG]	[0.31 - 0.35 in]				
<u>2787-2347</u>							
<u>2787-2348</u>		0.50 - 10 mm²	Input 8-9mm [0.31 - 0.35 in]				
<u>2787-2357</u>		[20 -12 AWG]	Output 13-15mm [0.51 - 0.59 in]				
<u>2787-2358</u>							



Digital I/O Functions

Digital I/O Functions					
Section	Operation	Description			
	Power supply standby on/off	If this checkbox is selected, the product can be switched on and off via the digital input.			
Distict	Inversion DI	If this checkbox is selected, the digital input is inverted.			
Digital Input	Function triggered by low/high transition	If this checkbox is selected, the digital input is activated in the event of an edge change from 0 to 1.			
	Function triggered by high/low transition	If this checkbox is selected, the digital input is activated in the event of an edge change from 1 to 0.			
	DC OK	If this checkbox is selected, the digital output is set if the DC output voltage is OK.			
	Load current warning level exceeded	If this checkbox is selected, the digital output is set if the overload warning threshold is exceeded.			
	Electronic circuit breaker tripped	If this checkbox is selected, the digital output is set if the electronic circuit breaker has tripped.			
Digital Output	Power supply switched off (Latched)	If this checkbox is selected, the digital output is set if latching shutdown occurs.			
	Digital output via process data/communication	If this checkbox is selected, the digital output can be controlled via the process data.			
	Digital output on	If this checkbox is selected, the digital output is switched on.			
	Inversion DO	If this checkbox is selected, the digital output is inverted.			
Warning	Overload limit active	If this checkbox is selected, warning is triggered if the overload warning threshold is exceeded.			
Thresholds (Software	Warning threshold	Here you can enter the value for current (unit: mA) at or above which a warning message is generated.			
Config.)	Operating hour counter warning limit	You can enter after how many operating hours (unit: h) after which a warning message is generated.			

Note: Digital I/O function checkboxes are available in the WAGO configuration software.

Operation via Buttons

Using the + and - buttons on the front of the product, you can make the following settings:

Operation via Buttons				
utton [+] Button [–] Function		Function		
Switch product on or off				
Hold down simultaneously for 3 seconds		The product is switched on or off.		
Set output voltage				
Press once	-	The output voltage increases in steps.		
Press and hold	-	The output voltage increases continuously.		
- Press once		The output voltage is reduced in steps.		
– Press and hold		The output voltage is reduced continuously.		
Reset product for factory settings				
Hold down simultaneously for 10 seconds The product is reset to the factory settings.				

During ongoing operation, you can set the output voltage and reset the product to factory settings. These settings can be saved and then remain available when the product is switched off and back on.



Safety and Agency Approvals					
Specification	Standard Document Number				
Harmonic Limits	Harmonic Current Limits	EN 61000-3-2, Class A for limited output power			
	Hazardous Locations	UL Standard 121201 [File No. E198726]			
	Industrial control equipment UL 61010-2-201 [File No. E255817]				
Safety Standards	Electrical equipment of machines	IEC60204-1 [over voltage category III]			
	Electronic equipment for power installation	IEC/EN 62477-1 / IEC62103			
	Safety, Transient surge voltage protection	VARISTOR			
Safety Approvals	CB-Report per IEC 60950	IEC 60950-1, IEC 61010-1, IEC 61010-2-201			
Safety Class	Degree of electrical protection Class1	Class I with GND connection			
CE	In conformance	with EMC directive 2014/30/EU and low voltage directive 2014/35/EU			
RoHS Compliant		RoHS Directive [EU] 2015/863 Compliant [EN 50581]			
Electromagnetic Compatibility (EMC), Emissions	EMC, Emissions	EN55032, EN55011, EN61000-3-2 Class A, EN61000-3-3, EN61000-6-3			
	EMC, Immunity	EN 55024, EN 61000-6-2 [EN61000-4-2, 3, 4, 5, 6, 8, 11, 12]			
	Electrostatic Discharge [ESD]	IEC 61000-4-2 Level 4 Criteria A Air Discharge: 15kV; Contact Discharge: 8kV			
Electromagnetic	Radiated RF field immunity [80-1000 MHz]	IEC / EN 61000-4-3: 120W&240W: IEC / EN 61000-4-3: 480W: 80MHz-1GHz, 10V/M, 80% modulation [1kHz] 80MHz-1GHz, 10V/ M, 80% modulation [1kHz] 1.4GHz-2GHz, 3V/M, 80% modulation [1KHz] 1.4GHz-2GHz, 10V/M, 80% modulation [1KHz] 2GHz-2.7GHz, 1V/M, 80% modulation [1KHz] 2GHz-2.7GHz, 10V/M, 80% modulation [1KHz]			
Compatibility (EMC), Immunity	Electrical fast transient / burst immunity	IEC / EN 61000-4-4 Level 4 Criteria A 4kV			
linnunity	Surge immunity	IEC / EN 61000-4-5 Level 4 Criteria A Common Mode: 4kV Differential Mode: 2kV			
	Immunity to conducted RF disturbances [0.15 to 80 MHz]	IEC / EN 61000-4-6 Level 3 Criteria A 150kHz-80MHz, 10Vrms			
	Power frequency field immunity	IEC / EN 61000-4-8 30 A / m			
	Voltage dips	IEC / EN 61000-4-11[70% UN Crit. B/40%/100% UN Crit. C]			
Pollution Degree	2				

To obtain the most current agency approval information, see the Agency Approval Compliance & Certifications Checklist section on the specific part number's web page.