

یوپیاس، شیارژر، استابلایزر باتری، ترانسفورماتور

علائم Keys

Single-phase input and output	1:1	ورودی و خ روجی تک فاز
Three-phase input, Single-phase output	3:1	ورودی ۳ فاز : خروجی تک فاز
Three-phase input and output	3:3	ورودی و خروجی ۳ فاز
Single-phase or three-phase input, single-phase output	1-3:1	ورودی تک فاز یا ۳ فاز : خروجی تک فاز
UPS VFD (Voltage Frequency Dependent)	VFD	یوپیاسهایی که ولتاژ و فرکانس خروجی به ولتاژ و فرکانس ورودی وابسته است
UPS Line Interactive (Voltage Independent)	VI	یوپیاسهایی که ولتاژ خروجی مستقل از ولتاژ ورودی است
UPS Online (Voltage Frequency Independent)	VFI	یوپیاسهایی که ولتاژ و فرکانس خروجی مستقل از ولتاژ و فرکانس ورودی است
Tower		یو پی اس ایستادہ
Rack		یو پی اس رک مونت
Rack / Tower		یو پی اس دوگانه: ایستاده / رک مونت
Modular system		یو پی اس ماژولار
UPS suitable for home - small office applications		یو پی اس مناسب منازل و دفاتر کوچک
UPS suitable for datacentre applications		یو پی اس مناسب دیتا سنتر
UPS suitable for electro-medical applications		یو پی اس مناسب مصارف بیمارستانی
UPS suitable for industrial applications	(m)	یو پی اس مناسب کارخاتجات صنعتی
UPS suitable for transport applications (railways, airports, naval)		یو پی اس مناسب حمل و نقل عمومی (مترو، تجهیزات ریلی و فرودگاهی)
UPS suitable for emergency applications	K-1	یو پی اس مناسب مصارف اضطراری

AEG

PROTECTPLUS S300

3/3 transformer-less IGBT based UPS From 10 to 200 kVA

Performance, compactness and reliability













Protectplus S300 is the new transformer-less UPS from AEG Power Solutions. Best in class system for its compact footprint, the system also provides high efficiency (> 95.6 % in double conversion and up to 98 % in Eco Mode).

Protectplus S300 is flexible in its configurations and benefits of a wide range of options. This makes it an ideal power protection for small and medium sized critical applications where power consumption, available space and reliability are key parameters.

The combination of high-level performance, with integrated battery solutions, or (as an alternative), the inbuilt galvanic isolation, the compact footprint and the wide range of options, make Protectplus S300 the best solution for the power quality of any critical load.

Features

The UPS is based on a highly efficient transformer-less double conversion technology, ensuring the lowest OPEX on the market in its category. Best in class for energy consumption; the system has a very low Total Cost of Ownership (TCO).

• 3-level IGBT technology

- Compact foot-print, with integrated batteries or isolation transformer up to 80 kVA
- Transformer-less architecture
- AC/AC efficiency up to 95.6 % (VFI) and 98 % in VFD*
- Input PF > 0.99 and THDi < 3 %*
- Output PF up to unity (without derating)
- Up to 8 units in parallel connection
- Static and maintenance bypass switches included
- Back-feed protection included
- Cold start (battery start) function
- 4.3" touch screen display
- Wide range of options

Typical applications

- |T
- Industry 4.0
- Finance and retail
- Healthcare
- Transportation

UPS

Specifications

POWER RATING MODEL	10	15	20	30	40	60	80	100	120	160	200			
Nominal active power up to 40 °C (kW)	9	13.5	18	27	36	54	72	100	120	160	200			
Dimensions W x D x H (mm)		400 x 81	5 x 1040		515	x 855 x 1	440		475 x 89	0 x 1440	•			
Weight without batteries/transformer (kg)	87	87	91	100	173	197	209	210	220	262	270			
MAINS INPUT LINE (RECTIFIER)	•		•											
Phase					3	Ph + N +	G							
Nominal voltage (V)	380 / 400 / 415													
Voltage range (V)	-20 % / +15 %													
Frequency (Hz)	50 / 60													
Frequency range (Hz)	40 – 70													
Power factor						> 0.99								
Input THDi (at rated voltage and THDv <0.5 %	5)				< 3 % (v	vith full lin	ear load)							
BYPASS INPUT LINE	·						<u> </u>							
Nominal Bypass Input Voltage [V]					38	80 / 400 /	415							
Bypass Input Voltage Range	± 20 % (with full load)													
Bypass Input Frequency [Hz]		50/60												
Bypass Frequency Range [Hz]					Nominal		djustable)							
Overload Capacity on Bypass Line						50 % cont								
7 71						180 % @								
					Up to	1000 % @	100 ms							
OUTPUT LINE (INVERTER)														
Voltage [V]					38	80 / 400 / 4	415							
Output THDv (according to IEC EN 62040-3)	< 2 % (with linear load); < 5 % (with non linear load)													
Transient Response		± 2 % for dynamic step load (20 % – 100 % – 20 %)												
Transient Recovery (after step load)	< 20 ms													
Output PF (up to 40 °C)				Up to 0.9					Up	to 1				
Crest Factor						3:1								
Frequency [Hz]						50 / 60								
Slew Rate [Hz/s]					0.5 t	o 5 (adjus	table)							
Overload Capacity through Inverter Line	Up to 105 % for long time operation < 110 % with transfer to bypass after 60 minutes < 125 % with transfer to bypass after 10 minutes < 150 % with transfer to bypass after 60 seconds													
							pass afte							
Short circuit current (through inverter line)							AC < 22 V							
									will shut d					
AC/AC efficiency in VFI @ nominal linear load	> 93.0 %	> 93.0 %	> 93.0 %	> 93.3 %	> 93.3 %	> 94.5%	> 94.8 %	> 94.8 %	> 95.6 %	> 94.5 %	> 95.3 %			
AC/AC efficiency in VFD					> 98 %	(at nomir	nal load)							
BATTERY LINE														
Nominal DC voltage (VDC)				±	360 (with	+/N/-	connectio	ns)						
Quantity of lead acid batteries (12 V each)				60) (settable	from 60	to 64 bloc	:ks)						
Recharge power	20 % of nominal power													
USER INTERFACE														
Display	LCD Touch Screen Display (4.3'')													
Standard communication ports	RS232, USB													
Optional communication ports	SNMP, dry contact relay card, Modbus													
GENERAL	•													
Protection degree			IP2	0 (standa	rd); other	values up	on reque	st (up to I	P41)					
Color	RAL 9005													
Operating temperature (°C)		0 to 40												
Storage temperature (°C)						-15 to 70								
Relative humidity						0 to 95 %								
Altitude (above sea level) (m)	< 10	< 1000 (with power derating of 0.5 % every 100 m up to 3000 m, according to IEC EN 62040-3)												
Noise at 1 m distance (dB)	` 1		57	ating or c	,	< 62	p 10 3000	1	64		68			
STANDARDS AND CERTIFICATIONS			-			. 02			0.1		50			
STATE AND ALL SERVICE ICALISMS						CF								
Marking and Certifications					IE/	CE CE 620/	10_1							
Marking and Certifications Safety EMC						C EN 6204 C EN 6204								



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