

DEFENDER DSP SERIES

Online "Double Conversion" Technology, DSP Controlled IGBT Rectifier UPS 3 Phase Input & 3 Phase Output 10kVA to 250kVA

- IGBT Rectifier
- Real Digital Signal Processor (DSP) controlled transformerless design
- Input Power Factor Correction PFC(>0,99)
- Low Total Harmonic Distortion Level
- High Efficiency (up to 95%)
- Wide Input Voltage Range
- Generator Compatible Operation
- ECO Mode Feature
- Intelligent battery management system extends the lifetime of batteries
- Static and Manual Bypass
- Communication with computers and network systems with SNMP availability
- Expandable battery blocks
- Low installation and operating costs
- Special voltage applications other than stated values



Defender DSP Series Technical Specifications

MODEL	Defender DSP 3310	Defender DSP 3315	Defender DSP 3320	Defender DSP 3330	Defender DSP 3340	Defender DSP 3345	Defender DSP 3360	Defender DSP 3380	Defender DSP 33100	Defender DSP 33120	Defender DSP 33160	Defender DSP 33200	Defender DSP 33250	
Output Power (kVA)	10	15	20	30	40	45	60	80	100	120	160	200	250	
Nominal Active Power (kW)	8	12	16	24	32	36	48	64	80	96	128	160	200	
INPUT		12	10	24	32	30	40	- 04	00	70	120	100	200	
Number Of Phases							3Phase+N	I.E						
Nominal Voltage (Ph-Ph)	38/1400/415VAC 380/400/415VAC													
Voltage Range (100% Load)	360/40/15VAC 176-280 VAC													
Nominal Frequency (Hz)	7/0-250 VAC 50/60 Hz													
Frequency Range	30700 Hz 44-66 HZ													
Input Current THD	44-00 FIZ													
Input Power Factor	<4% 0.99 <5%													
OUTPUT							0.99							
Power Factor							0,8							
Number Of Phases														
	3													
Voltage	380/400/415													
Static Voltage Regulation THD-V							1%							
3.3.2min.3.2	<3%													
Crest Factor							3:1							
Frequency (Hz)							50 / 60							
Free Running Frequency (Hz)							0.01 Hz							
Overload						125% for 10) minutes, 15	0% for 30 s	ecs					
Efficiency							>94%							
BATTERY														
Туре						Main	tenance Fre	e Dry Type						
Quantity	2x3l 2x30													
Battery Protection	Deep Discharge Protection with Auto Cut Off													
Battery Test						Sta	ndard (Auto	&Manual)						
DISPLAY														
LED Display							ery, Inverter,							
LCD Display		Load%	, Input&Out	put Frequer	icy, Voltage	& Current, B	ypass Volta	ge, Battery \	oltage & Curr	rent, Tempera	ture, Alarms,	, History		
STATIC BYPASS														
Number Of Phases							3Phase+N							
Voltage Range For Bypass		175-253 VAC												
Frequency Range For Bypass						4	7-53 Hz or 5	7-63 Hz						
COMMUNICATION														
Interface (Communication Ports)	RS 232													
Dry Contact Signals	Optional													
Others							SNMP Opti	onal						
ENVIRONMENT														
Storage Temperature Range (°C)				Withou	t Batteries	-25 +55 C (15	to 40 recor	nmended fo	r longer batte	ry life time)				
Operating Temperature Range (°C)														
Relative Humidity	0-95 % (non-condensing)													
Max. Altitude							1000 n	1						
Protection Level							IP 20							
PHYSICAL SPECIFICATIONS				_										
Dimensions W*D*H (cm)	56x82x128	56x82x128	56x82x128	56x82x128	56x82x128	56x82x128	56x96x110	56x96x110	56x102x130	56x102x130	110x82x160	110x82x160	110x82x160	
	115	120	120	138	140	140	165	170	220	235	340	380	420	
Weight (kg)														
Weight (kg) STANDARDS	113	120					103	17.02						







