



# ELETRONICA PROFESSIONALE PROFESSIONAL ELECTRONICS



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## SINGLE PHASE XPS/M

	XPS/M 3000	XPS/M 6000
<b>Power/Inrush Mode</b>	3000/6000 VA	6000/12000 VA
<b>Code</b>	<b>99114053</b>	<b>99114113</b>
<b>Output</b>	Single phase	Single phase
<b>Characteristic</b>	Not isolated	Not isolated
<b>Voltage</b>		
<b>Range</b>	300Vac/425Vdc	300Vac/425Vdc
<b>Accuracy</b>	<0.5% f.s.	<0.5% f.s.
<b>Distortion</b>	<0.3% <sup>2)</sup>	<0.3% <sup>2)</sup>
<b>Stability of the output voltage</b>	<0.1% f.s.	<0.1% f.s.
<b>Recovery time of the waveform</b>	<10ms	<10ms
<b>Maximum Compensated drop</b>	5% s.v.	5% s.v.
<b>Recovery-time of drop on wires</b>	<200ms.	<200ms.
<b>Output voltage resolution</b>	AC 0.1% f.s. DC 0.05% f.s.	AC 0.1% f.s. DC 0.05% f.s.
<b>Maximum current</b>		
<b>Range</b>	150V 300V	150V 300V
<b>RMS continuous <sup>2)</sup></b>	- 10A	- 19.0A
<b>Inrush Current (3 seconds)<sup>2)</sup></b>	- 20A	- 38.1A
<b>Frequency</b>		
<b>Output frequency range</b>	DC,10Hz – 1000Hz	DC, 10Hz - 1000Hz
<b>Range of synchronization</b>	45Hz - 65Hz	45Hz - 65Hz
<b>Frequency resolution</b>	0.01Hz	0.01Hz
<b>Frequency precision</b>	(8)	(8)
<b>Supply</b>		
<b>Input supply</b>	230Vac ± 10% 1Ph	400Vac ± 10% 3PH+N
<b>Maximum Input current</b>	25A	16A/27A neutral
<b>Input Frequency</b>	47Hz-63Hz	47Hz-63Hz
<b>Other</b>		
<b>Size (H : W : D)</b>	281 : 471 : 513 <sup>3)</sup>	281 : 471 : 513 <sup>3)</sup>
<b>Weight</b>	30Kg	45Kg
<b>Protections</b>	OVP;UVP;OTP	OVP;UVP;OTP
<b>Operation Temperature Range</b>	0-35°C	0-35°C
<b>RS232</b>	YES	YES
<b>RS485</b>	YES	YES
<b>LAN</b>	YES	YES
<b>Amplifier Options</b>	-	-
<b>DC options</b>	YES	YES

<sup>2)</sup> With Resistive load

<sup>3)</sup> Rack and Desk solution

f.s. stands for Full Scale

s.v. stands for Set Value



## SINGLE PHASE DISPLAY TPS/M/D

	TPS/M/D 1500	TPS/M/D 3000	TPS/M/D 6000	TPS/M/D 9000
<b>Power/Inrush Mode</b>	1500/3000 VA	3000/6000 VA	6000/12000 VA	9000/18000 VA
<b>Code</b>	<b>99111113</b>	<b>99111263</b>	<b>99111513</b>	<b>99111663</b>
<b>Output</b>	Single phase	Single phase	Single phase	Single phase
<b>Characteristic</b>	Not isolated	Not isolated	Not isolated	Not isolated
<b>Voltage</b>				
<b>Range</b>	150V/300V	150V/300V	150V/300V	150V/300V
<b>Accuracy</b>	<0.5% f.s.	<0.5% f.s.	<0.5% f.s.	<0.5% f.s.
<b>Distortion</b>	<0.3% <sup>2)</sup>	<0.3% <sup>2)</sup>	<0.3% <sup>2)</sup>	<0.3% <sup>2)</sup>
<b>Stability of the output voltage</b>	<0.1% f.s.	<0.1% f.s.	<0.1% f.s.	<0.1% f.s.
<b>Recovery time of the waveform</b>	<10ms	<10ms	<10ms	<10ms
<b>Maximum Compensated drop</b>	5% s.v.	5% s.v.	5% s.v.	5% s.v.
<b>Recovery-time of drop on wires</b>	<200ms.	<200ms.	<200ms.	<200ms.
<b>Output voltage resolution</b>	0.025% f.s.	0.025% f.s.	0.025% f.s.	0.025% f.s.
<b>Maximum current</b>				
<b>Range</b>	150V 300V	150V 300V	150V 300V	150V 300V
<b>RMS continuous <sup>2)</sup></b>	9.33A 4.67A	18.7A 9.3A	38.1A 19.0A	60.2A 30.1A
<b>Inrush Current (3 seconds)<sup>2)</sup></b>	18.7A 9.3A	37.3A 18.7A	84.6A 38.1A	123.6A 61.8A
<b>Frequency</b>				
<b>Output frequency range</b>	DC <sup>1)</sup> , 10Hz – 80Hz <sup>4)</sup>	DC <sup>1)</sup> , 10Hz – 80Hz <sup>4)</sup>	DC <sup>1)</sup> , 10Hz - 80Hz <sup>4)</sup>	DC <sup>1)</sup> , 10Hz –80Hz <sup>4)</sup>
<b>Range of synchronization</b>	45Hz - 65Hz	45Hz - 65Hz	45Hz - 65Hz	45Hz - 65Hz
<b>Frequency resolution</b>	0.02Hz	0.02Hz	0.02Hz	0.02Hz
<b>Frequency precision</b>	100ppm	100ppm	100ppm	100ppm
<b>Supply</b>				
<b>Input supply</b>	230Vac ± 10% 1Ph	230Vac ± 10% 1Ph	400Vac ± 10% 3PH+N	400Vac ± 10% 3PH+N
<b>Maximum Input current</b>	12A	24A	16A/24A neutral	24A/41A neutral
<b>Input Frequency</b>	47Hz-63Hz	47Hz-63Hz	47Hz-63Hz	47Hz-63Hz
<b>Other</b>				
<b>Size (H : W : D)</b>	191 : 471 : 513 <sup>3)</sup>	191 : 471 : 513 <sup>3)</sup>	281 : 471 : 513 <sup>3)</sup>	281 : 471 : 513 <sup>3)</sup>
<b>Weight</b>	25Kg	29Kg	39Kg	44Kg
<b>Protections</b>	OVP;UVP;OTP	OVP;UVP;OTP	OVP;UVP;OTP	OVP;UVP;OTP
<b>Operation Temperature Range</b>	0-35°C	0-35°C	0-35°C	0-35°C
<b>RS232</b>	YES	YES	YES	YES
<b>RS485</b>	YES	YES	YES	YES
<b>LAN</b>	YES	YES	YES	YES
<b>Amplifier Options</b>	<b>99101133</b>	<b>99101133</b>	<b>99101133</b>	<b>99101133</b>
<b>DC options</b>	YES	YES	YES	YES

<sup>1)</sup> Only on 300V range

<sup>2)</sup> With Resistive load

<sup>3)</sup> Rack and Desk solution

<sup>4)</sup> You can set up 320Hz by serial command, but with derating of performance and maximum voltage

f.s. stand for Full Scale

s.v. stand for set value



## SINGLE PHASE /M TPS NEW

	TPS/M 1500	TPS/M 3000	TPS/M 6000	TPS/M 9000
<b>Power/Inrush Mode</b>	1500/3000 VA	3000/6000 VA	6000/12000 VA	9000/18000 VA
<b>Code</b>	99111103	99111253	99111503	99111653
<b>Output</b>	Single phase	Single phase	Single phase	Single phase
<b>Characteristic</b>	Not isolated	Not isolated	Not isolated	Not isolated
<b>Voltage</b>				
<b>Range</b>	150V/300V	150V/300V	150V/300V	150V/300V
<b>Accuracy</b>	<0.5% f.s.	<0.5% f.s.	<0.5% f.s.	<0.5% f.s.
<b>Distortion</b>	<0.3% <sup>2)</sup>	<0.3% <sup>2)</sup>	<0.3% <sup>2)</sup>	<0.3% <sup>2)</sup>
<b>Stability of the output voltage</b>	<0.1% f.s.	<0.1% f.s.	<0.1% f.s.	<0.1% f.s.
<b>Recovery time of the waveform</b>	<10ms	<10ms	<10ms	<10ms
<b>Maximum Compensated drop</b>	5% s.v.	5% s.v.	5% s.v.	5% s.v.
<b>Recovery-time of drop on wires</b>	<200ms.	<200ms.	<200ms.	<200ms.
<b>Output voltage resolution</b>	0.025% f.s.	0.025% f.s.	0.025% f.s.	0.025% f.s.
<b>Maximum current</b>				
<b>Range</b>	150V 300V	150V 300V	150V 300V	150V 300V
<b>RMS continuous <sup>2)</sup></b>	9.33A 4.67A	18.7A 9.3A	38.1A 19.0A	60.2A 30.1A
<b>Inrush Current (3 seconds)<sup>2)</sup></b>	18.7A 9.3A	37.3A 18.7A	84.6A 38.1A	123.6A 61.8A
<b>Frequency</b>				
<b>Output frequency range</b>	DC <sup>1)</sup> , 10Hz – 80Hz <sup>4)</sup>	DC <sup>1)</sup> , 10Hz – 80Hz <sup>4)</sup>	DC <sup>1)</sup> , 10Hz – 80Hz <sup>4)</sup>	DC <sup>1)</sup> , 10Hz – 80Hz <sup>4)</sup>
<b>Range of synchronization</b>	45Hz - 65Hz	45Hz - 65Hz	45Hz - 65Hz	45Hz - 65Hz
<b>Frequency resolution</b>	0.02Hz	0.02Hz	0.02Hz	0.02Hz
<b>Frequency precision</b>	100ppm	100ppm	100ppm	100ppm
<b>Supply</b>				
<b>Input supply</b>	230Vac ± 10% 1Ph	230Vac ± 10% 1Ph	400Vac ± 10% 3PH+N	400Vac ± 10% 3PH+N
<b>Maximum Input current</b>	12A	24A	16A/24A neutral	24A/41A neutral
<b>Input Frequency</b>	50Hz-60Hz	50Hz-60Hz	50Hz-60Hz	50Hz-60Hz
<b>Other</b>				
<b>Size (H : W : D)</b>	191 : 471 : 513 <sup>3)</sup>	191 : 471 : 513 <sup>3)</sup>	281 : 471 : 513 <sup>3)</sup>	281 : 471 : 513 <sup>3)</sup>
<b>Weight</b>	25Kg	29Kg	39Kg	44Kg
<b>Protections</b>	OVP;UVP;OTP	OVP;UVP;OTP	OVP;UVP;OTP	OVP;UVP;OTP
<b>Operation Temperature Range</b>	0-35°C	0-35°C	0-35°C	0-35°C
<b>RS232</b>	YES	YES	YES	YES
<b>RS485</b>	OPTION	OPTION	OPTION	OPTION
<b>LAN</b>	OPTION	OPTION	OPTION	OPTION
<b>Amplifier Options</b>	99101133	99101133	99101133	99101133
<b>DC options</b>	99101120	99101120	99101120	99101120

<sup>1)</sup> Only on 300V range

<sup>2)</sup> With Resistive load

<sup>3)</sup> Rack and Desk solution

<sup>4)</sup> You can set up 320Hz by serial command, but with derating of performance and maximum voltage

f.s. stand for Full Scale

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## 3 PHASE /T ISOLATED XPS

	XPS/T 18KVA				XPS/T 30KVA				XPS/T 67KVA			
Code	99114513				99114613				99114813			
Configuration	Continuous		Inrush		Continuous		Inrush		Continuous		Inrush	
Power	- 18KVA / 36KVA				- 30KVA / 60KVA				- 67KVA / 90KVA			
Output Characteristic	1phase <sup>(7)</sup> / 3phase Isolated				1phase <sup>(7)</sup> / 3phase Isolated				1phase <sup>(7)</sup> / 3phase Isolated			
<b>Voltage</b>												
Range	300Vac/425Vdc				300Vac/425Vdc				300Vac/425Vdc			
Accuracy	<0.5% f.s.				<0.5% f.s.				<0.5% f.s.			
Distortion	<0.3%				<0.3%				<0.3%			
Stability of the output voltage	<0.1% f.s.				<0.1% f.s.				<0.1% f.s.			
Recovery time of the waveform	<50µs				<50µs				<50µs			
Maximum Compensated drop	5% s.v.				5% s.v.				5% s.v.			
Recovery-time of drop on wires	<200ms.				<200ms.				<200ms.			
Output voltage resolution	AC 0.1% f.s. DC 0.05% f.s.				AC 0.1% f.s. DC 0.05% f.s.				AC 0.1% f.s. DC 0.05% f.s.			
<b>Maximum current single phase</b>												
Configuration	Continuous		Inrush		Continuous		Inrush		Continuous		Inrush	
Range	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V
RMS continuous <sup>2)</sup>	-	-	-	60A	-	-	-	96A	-	-	-	225A
Inrush Current (3 seconds) <sup>2)</sup>	-	-	-	120A	-	-	-	288A	-	-	-	300A
<b>Maximum current three phase</b>												
Configuration	Continuous		Inrush		Continuous		Inrush		Continuous		Inrush	
Range	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V
RMS continuous <sup>2)</sup>	-	-	-	20A	-	-	-	32A	-	-	-	75A
Inrush Current (3 seconds) <sup>2)</sup>	-	-	-	40A	-	-	-	64A	-	-	-	100A
<b>Frequency</b>												
Output frequency range	DC - 10Hz - 1000Hz				DC - 10Hz - 1000Hz				DC - 10Hz - 1000Hz			
Range of synchronization	-				-				-			
Frequency resolution	0.1Hz				0.1Hz				0.1Hz			
Frequency precision	(8)				(8)				(8)			
<b>Supply</b>												
Input supply	400Vac ± 10% 3Ph Without neutral				400Vac ± 10% 3Ph Without neutral				400Vac ± 10% 3Ph Without neutral			
Maximum Input current	60A/120A				80A/160A				160A/220A			
Input Frequency	47Hz-63Hz				47Hz-63Hz				47Hz-63Hz			
<b>Other</b>												
Size (H : W : D)(mm)	1560 : 960 : 755				1560 : 930 : 755				1800 : 1200 : 800			
Weight	740Kg				740Kg				1300Kg			
Protections	OVP;UVP;OTP; INV; OV PE				OVP;UVP;OTP; INV; OV PE				OVP;UVP;OTP; INV; OV PE			
Operation Temperature Range	0-35°C				0-35°C				0-35°C			
RS232	YES				YES				YES			
RS485	YES				YES				YES			
LAN	YES				YES				YES			
Firmware with SCPI	YES				YES				YES			
Firmware with MODBUS	YES				YES				YES			



<sup>2)</sup> With Resistive load.

<sup>4)</sup> Other range on request

<sup>6)</sup> It is possible to use in single phase mode but with 1/3 of nominal power. It is possible asymmetrical output current

<sup>7)</sup> Available with options

<sup>8)</sup> For more information please contact Elettrotest S.p.A.

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s.v. stand for set value

## 3 PHASE /T ISOLATED TPS MILLENIUM

	TPS/T 7.5K22.5S (10K)				TPS/T 15K45S (20K)				TPS/T 30K60S (40K)				TPS/T 60K		TPS/T 50K120S (60K)				TPS/T 90K	
Code	99110547				99110557				99110585				99110540		99116523				99110600	
Configuration	Continuous		Inrush		Continuous		Inrush		Continuous		Inrush		Continuous		Continuous		Inrush		Continuous	
Power	10KVA		7.5KVA/22.5KVA		20KVA		15KVA/45KVA		40KVA		30KVA/60KVA		72KVA		72KVA		50K120S		95KVA	
Output	1phase / 3phase				1phase / 3phase				1phase / 3phase				1phase / 3phase		1phase / 3phase				3phase	
Characteristic	Isolated				Isolated				Isolated				Isolated		Isolated				Isolated	
<b>Voltage</b>																				
Range	150V/300V <sup>1)</sup>				150V/300V <sup>1)</sup>				150V/300V <sup>1)</sup>				150V/300V <sup>1)</sup>		150V/300V <sup>1)</sup>				150V/300V <sup>1)</sup>	
Accuracy	<0.5% f.s.				<0.5% f.s.				<0.5% f.s.				<0.5% f.s.		<0.5% f.s.				<0.5% f.s.	
Distortion	<0.3% <sup>2)</sup>				<0.3% <sup>2)</sup>				<0.3% <sup>2)</sup>				<0.3% <sup>2)</sup>		<0.3% <sup>2)</sup>				<0.3% <sup>2)</sup>	
Stability of the output voltage	<0.1% f.s.				<0.1% f.s.				<0.1% f.s.				<0.1% f.s.		<0.1% f.s.				<0.1% f.s.	
Recovery time of the waveform	<10ms				<10ms				<10ms				<10ms		<10ms				<10ms	
Maximum Compensated drop	5% s.v.				5% s.v.				5% s.v.				5% s.v.		5% s.v.				5% s.v.	
Recovery-time of drop on wires	<200ms.				<200ms.				<200ms.				<200ms.		<200ms.				<200ms.	
Output voltage resolution	0.025% f.s.				0.025% f.s.				0.025% f.s.				0.025% f.s.		0.025% f.s.				0.025% f.s.	
<b>Maximum current single phase</b>																				
Configuration	Continuous		Inrush		Continuous		Inrush		Continuous		Inrush		Continuous		Continuous		Inrush		Continuous	
Range	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V
RMS continuous <sup>2)</sup>	66.7A	33.3A	49.6A	24.8A	133A	66.5A	100A	50A	267A	133A	200A	100A	480A	240A	480A	240A	340A	170A	No single-phase option	
Inrush Current (3 seconds) <sup>2)</sup>	No Inrush		149A	74.4A	No Inrush		300A	150A	No inrush		400A	200A	No inrush capability		No inrush		960A	480A	No single-phase option	
<b>Maximum current three phase</b>																				
Configuration	Continuous		Inrush		Continuous		Inrush		Continuous		Inrush		Continuous		Continuous		Inrush		Continuous	
Range	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V
RMS continuous <sup>2)</sup>	22.2A	11.1A	16.6A	8.33A	44.4A	22.2A	33.3A	16.7A	88.9A	44.5A	66.6A	33.3A	160A	80A	160A	80A	112A	56A	213A	107A
Inrush Current (3 seconds) <sup>2)</sup>	No Inrush		50A	25A	No Inrush		100A	50A	No inrush		133A	66.7A	No inrush capability		No inrush		320A	160A	No inrush capability	
<b>Frequency</b>																				
Output frequency range	40Hz <sup>3)</sup> - 80Hz <sup>4)</sup>				40Hz <sup>3)</sup> - 80Hz <sup>4)</sup>				40Hz <sup>3)</sup> - 80Hz <sup>4)</sup>				40Hz <sup>3)</sup> - 80Hz <sup>4)</sup>		40Hz <sup>3)</sup> - 80Hz <sup>4)</sup>				40Hz <sup>3)</sup> - 80Hz <sup>4)</sup>	
Range of synchronization	45Hz - 65Hz				45Hz - 65Hz				45Hz - 65Hz				45Hz - 65Hz		45Hz - 65Hz				45Hz - 65Hz	
Frequency resolution	0.02Hz				0.02Hz				0.02Hz				0.02Hz		0.02Hz				0.02Hz	
Frequency precision	100ppm				100ppm				100ppm				100ppm		100ppm				100ppm	
<b>Supply</b>																				
Input supply	400Vac ± 10% 3Ph Without neutral				400Vac ± 10% 3Ph Without neutral				400Vac ± 10% 3Ph Without neutral				400Vac ± 10% 3Ph Without neutral		400Vac ± 10% 3Ph Without neutral				400Vac ± 10% 3Ph Without neutral	
Maximum Input current	20A				70A				120A				160A		250A				250A	
Input Frequency	50Hz-60Hz				50Hz-60Hz				50Hz-60Hz				50Hz-60Hz		50Hz-60Hz				50Hz-60Hz	
<b>Other</b>																				
Size (H : W : D)(mm)	1670 : 620 : 625				1670 : 920 : 625				1670 : 920 : 625				1800 : 1200 : 800		1800 : 1200 : 800				1800 : 1200 : 1000	
Weight	200Kg				400Kg				600Kg				960Kg		1000Kg				1200Kg	
Protections	OVP;UVP;OTP				OVP;UVP;OTP				OVP;UVP;OTP				OVP;UVP;OTP		OVP;UVP;OTP				OVP;UVP;OTP	
Operation Temperature Range	0-35°C				0-35°C				0-35°C				0-35°C		0-35°C				0-35°C	
RS232	YES				YES				YES				YES		YES				YES	
RS485	OPTION				OPTION				OPTION				OPTION		OPTION				OPTION	
LAN	OPTION				OPTION				OPTION				OPTION		OPTION				OPTION	



<sup>1)</sup> Other range on request.

<sup>2)</sup> With Resistive load.

<sup>3)</sup> It is possible on remote interface to set 10Hz but you must decrease the maximum voltage.

<sup>4)</sup> You can set up 320Hz by serial command, but with derating of performance and maximum voltage

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s.v. stand for set value

## 3 PHASE HIGH POWER VERSION

	HPS 60KVA		HPS 100KVA		HPS 100KVA				HPS 200KVA				HPS 200KVA PARALLEL			
Code	99116553		99116803		99116823				99116953				99116963			
Configuration	Continuous		Continuous		Continuous		Inrush		Continuous		Inrush		Continuous		Inrush	
Power	60KVA		100KVA		100KVA		60KVA/180KVA		200KVA		120KVA/360KVA		200KVA		120KVA/360KVA	
Output	3phase <sup>1)</sup>		3phase <sup>1)</sup>		3phase <sup>1)</sup>				3phase <sup>1)</sup>				3phase <sup>5)</sup>			
Characteristic	Isolated		Isolated		Isolated				Isolated				Isolated			
Voltage																
Range	150V/300V <sup>2)</sup>		150V/300V <sup>2)</sup>		150V/300V <sup>2)</sup>				150V/300V <sup>2)</sup>				150V/300V <sup>2)</sup>			
Accuracy	<0.5% f.s.		<0.5% f.s.		<0.5% f.s.				<0.5% f.s.				<0.5% f.s.			
Distortion	<0.6% <sup>3)</sup>		<0.6% <sup>3)</sup>		<0.6% <sup>3)</sup>				<0.6% <sup>3)</sup>				<0.6% <sup>3)</sup>			
Stability of the output voltage	<0.1% f.s.		<0.1% f.s.		<0.1% f.s.				<0.1% f.s.				<0.1% f.s.			
Recovery time of the waveform	<10ms		<10ms		<10ms				<10ms				<10ms			
Maximum Compensated drop	5% s.v.		5% s.v.		5% s.v.				5% s.v.				5% s.v.			
Recovery-time of drop on wires	<200ms.		<200ms.		<200ms.				<200ms.				<200ms.			
Output voltage resolution	0.025% f.s.		0.025% f.s.		0.025% f.s.				0.025% f.s.				0.025% f.s.			
Maximum current single phase																
Configuration	Continuous		Continuous		Continuous		Inrush		Continuous		Inrush		Continuous		Inrush	
Range	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V
RMS continuous <sup>3)</sup>	137A	68A	228A	114A	228A	114A	137A	68A	456A	228A	270A	135A	456A	228A	270A	135A
Inrush Current (3 seconds) <sup>3)</sup>	196A	98A	No inrush	No inrush	No inrush		410A	205A	No inrush		837A	410A	No inrush		837A	410A
Maximum current three phase																
Configuration	Continuous		Continuous		Continuous		Inrush		Continuous		Inrush		Continuous		Inrush	
Range	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V
RMS continuous <sup>3)</sup>	137A	68A	228A	114A	228A	114A	137A	68A	456A	228A	270A	135A	456A	228A	270A	135A
Inrush Current (3 seconds) <sup>3)</sup>	196A	98A	No inrush		No inrush		410A/205A		No inrush		837A/410A		No inrush		837A/410A	
Frequency																
Output frequency range	50Hz <sup>4)</sup> - 80Hz <sup>6)</sup>		50Hz <sup>4)</sup> - 80Hz <sup>6)</sup>		50Hz <sup>4)</sup> - 80Hz <sup>6)</sup>				50Hz <sup>4)</sup> - 80Hz <sup>6)</sup>				50Hz <sup>4)</sup> - 80Hz <sup>6)</sup>			
Range of synchronization	45Hz - 65Hz		45Hz - 65Hz		45Hz - 65Hz				45Hz - 65Hz				45Hz - 65Hz			
Frequency resolution	0.02Hz		0.02Hz		0.02Hz				0.02Hz				0.02Hz			
Frequency precision	100ppm		100ppm		100ppm				100ppm				100ppm			
Supply																
Input supply	400Vac±10% 3PH		400Vac±10% 3PH		400Vac±10% 3PH				400Vac±10% 3PH				400Vac±10% 3PH			
Maximum Input current	150A		250A		250A				500A				500A			
Input Frequency	50Hz-60Hz		50Hz-60Hz		50Hz-60Hz				50Hz-60Hz				50Hz-60Hz			
Other																
Size (H : W : D)(mm)	1670 : 920 : 825		1670 : 920 : 825		1670 : 920 : 825				1800 : 1200 : 1000				1800 : 1600 : 1000			
Weight	640 Kg		800 kg		800 kg				1400 Kg				1600 Kg			
Protections	OVP,UVP;OTP		OVP,UVP;OTP		OVP,UVP;OTP				OVP,UVP;OTP				OVP,UVP;OTP			
Operation Temperature Range	0-35°C		0-35°C		0-35°C				0-35°C				0-35°C			
RS232	YES		YES		YES				YES				YES			
RS485	OPTION		OPTION		OPTION				OPTION				OPTION			
LAN	OPTION		OPTION		OPTION				OPTION				OPTION			



<sup>1)</sup> It is possible to use in single phase mode but with 1/3 of nominal power. It is possible asymmetrical output current.

<sup>2)</sup> Other range on request.

<sup>3)</sup> With Resistive load.

<sup>4)</sup> It is possible on remote interface to set 10Hz but you must decrease the maximum voltage.

<sup>5)</sup> The parallel machine has three single phase transformers so you can change the module and the phase of each line

<sup>6)</sup> You can set up 320Hz by serial command, but with derating of performance and maximum voltage

f.s. stand for Full Scale, s.v. stand for set value

## 3 PHASE COMPACT SERIES CPS

	CPS5KVA				CPS10KVA				CPS20KVA				CPS40KVA																			
Code	99110770								99110780								99110790								99110800							
Configuration	Continuous		Inrush		Continuous		Inrush		Continuous		Inrush		Continuous		Inrush																	
Power	5KVA		4KVA/8KVA		10KVA		7.5KVA/15KVA		20KVA		15KVA/30KVA		40KVA		30KVA/60KVA																	
Output	1phase / 3phase								1phase / 3phase								1phase / 3phase															
Characteristic	Not Isolated								Not Isolated								Not Isolated															
Voltage																																
Range	150V/300V <sup>1)</sup>				150V/300V <sup>1)</sup>				150V/300V <sup>1)</sup>				150V/300V <sup>1)</sup>																			
Accuracy	<0.5% f.s.				<0.5% f.s.				<0.5% f.s.				<0.5% f.s.																			
Distortion	<0.6% <sup>(2)</sup>				<0.6% <sup>(2)</sup>				<0.6% <sup>(2)</sup>				<0.6% <sup>(2)</sup>																			
Stability of the output voltage	<0.1% f.s.				<0.1% f.s.				<0.1% f.s.				<0.1% f.s.																			
Recovery time of the waveform	<10ms				<10ms				<10ms				<10ms																			
Maximum Compensated drop	5% s.v.				5% s.v.				5% s.v.				5% s.v.																			
Recovery-time of drop on wires	<200ms.				<200ms.				<200ms.				<200ms.																			
Output voltage resolution	0.025% f.s.				0.025% f.s.				0.025% f.s.				0.025% f.s.																			
Maximum current single phase																																
Configuration	Continuous		Inrush		Continuous		Inrush		Continuous		Inrush		Continuous		Inrush																	
Range	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V																
RMS continuous <sup>2)</sup>	33.2A	16.6A	26.7A	13.3A	66.4A	33.2A	50A	25A	133A	66.4A	100A	50A	266A	133A	200A	100A																
Inrush Current (3 seconds) <sup>2)</sup>	No inrush		53.4A	26.6A	No inrush		100A	50A	No inrush		200A	100A	No inrush		400A	200A																
Maximum current three phase																																
Configuration	Continuous		Inrush		Continuous		Inrush		Continuous		Inrush		Continuous		Inrush																	
Range	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V	150V	300V																
RMS continuous <sup>(2)</sup>	11.1A	5.5A	8.9A	4.4A	22.2A	11.1A	16.7A	8.3A	44.4A	22A	33.4A	16.7A	88.9A	44A	66.8A	33.4A																
Inrush Current (3 seconds) <sup>2)</sup>	No inrush		17.8A	8.8A	No inrush		33.4A	16.6A	No inrush		66.8A	33.4A	No inrush		134A	66.8A																
Frequency																																
Output frequency range	50Hz <sup>(3)</sup> - 80Hz				50Hz <sup>(3)</sup> - 80Hz				50Hz <sup>(3)</sup> - 80Hz				50Hz <sup>(3)</sup> - 80Hz																			
Range of synchronization	45Hz - 65Hz				45Hz - 65Hz				45Hz - 65Hz				45Hz - 65Hz																			
Frequency resolution	0.02Hz				0.02Hz				0.02Hz				0.02Hz																			
Frequency precision	100ppm				100ppm				100ppm				100ppm																			
Supply																																
Input supply	400Vac ± 10% 3PH+N				400Vac ± 10% 3PH+N				400Vac ± 10% 3PH+N				400Vac ± 10% 3PH+N																			
Maximum Input current	12A/24A neutral				23A/23A neutral				42A/42A neutral				85A/85A neutral																			
Input Frequency	50Hz-60Hz				50Hz-60Hz				50Hz-60Hz				50Hz-60Hz																			
Other																																
Size (H : W : D)(mm)	281 : 471 : 513				1150 :585 : 600				1410 :585 : 600				1410 :585 : 600																			
Weight	54Kg				180Kg				300Kg				450Kg																			
Protections	OVP;UVP;OTP				OVP;UVP;OTP				OVP;UVP;OTP				OVP;UVP;OTP																			
Operation Temperature Range	0-35°C				0-35°C				0-35°C				0-35°C																			
RS232	YES				YES				YES				YES																			
RS485	OPTION				OPTION				OPTION				OPTION																			
LAN	OPTION				OPTION				OPTION				OPTION																			

<sup>1)</sup> Other range on request.

<sup>2)</sup> With Resistive load.

<sup>3)</sup> It is possible on remote interface to set 10Hz but you must decrease the maximum voltage.

<sup>4)</sup> You can set up 320Hz by serial command, but with derating of performance and maximum voltage

f.s. stand for Full Scale

s.v. stand for set value





## COMPACT POWER SUPPLY SINGLE PHASE

	CPS/M 1K	CPS/M 2.5K	CPS/M 5K	CPS/M 10K
<b>Code</b>	<b>99112103</b>	<b>99112153</b>	<b>99110750</b>	<b>99110755</b>
<b>Power</b>	1000VA	2500VA	5000VA	10000VA
<b>Output</b>	Single phase	Single phase	Single phase	Single phase
<b>Characteristic</b>	Not isolated	Not isolated	Not isolated	Not isolated
<b>Voltage</b>				
<b>Range</b>	300V	300V	300V	300V
<b>Accuracy</b>	<0.5% f.s.	<0.5% f.s.	<0.5% f.s.	<0.5% f.s.
<b>Distortion</b>	<0.3% <sup>1)</sup>	<0.3% <sup>1)</sup>	<0.3% <sup>1)</sup>	<0.3% <sup>1)</sup>
<b>Stability of the output voltage</b>	<0.1% f.s.	<0.1% f.s.	<0.1% f.s.	<0.1% f.s.
<b>Recovery time of the waveform</b>	<10ms	<10ms	<10ms	<10ms
<b>Maximum Compensated drop</b>	5% s.v.	5% s.v.	5% s.v.	5% s.v.
<b>Recovery-time of drop on wires</b>	<200ms	<200ms	<200ms	<200ms
<b>Output voltage resolution</b>	0.025% f.s.	0.025% f.s.	0.025% f.s.	0.025% f.s.
<b>Maximum current</b>				
<b>RMS continuous <sup>1)</sup></b>	3.3A	8.3A	16.7A	33.4 A
<b>Inrush Current (3 seconds)<sup>1)</sup></b>	6.7A	16.7A	33.4A	66.8 A
<b>Frequency</b>				
<b>Output frequency range</b>	DC <sup>2)</sup> , 10Hz - 80Hz <sup>4)</sup>	DC <sup>2)</sup> , 10Hz - 80Hz <sup>4)</sup>	DC <sup>2)</sup> , 10Hz - 80Hz <sup>4)</sup>	DC <sup>2)</sup> , 10Hz - 80Hz <sup>4)</sup>
<b>Range of synchronization</b>	45Hz - 65Hz	45Hz - 65Hz	45Hz - 65Hz	45Hz - 65Hz
<b>Frequency resolution</b>	0.02Hz	0.02Hz	0.02Hz	0.02Hz
<b>Frequency precision</b>	100ppm	100ppm	100ppm	100ppm
<b>Supply</b>				
<b>Input supply</b>	230Vac ±10% 1Ph	230Vac ±10% 1Ph	230Vac ±10% 1Ph	400Vac±10% 3N
<b>Maximum Input current</b>	7.5 A	18 A	35A	24A/41A neutral
<b>Input Frequency</b>	50Hz-60Hz	50Hz-60Hz	50Hz-60Hz	50Hz-60Hz
<b>Other</b>				
<b>Size (H : W : D)</b>	4U : 450 : 540 <sup>3)</sup>	4U : 450 : 540 <sup>3)</sup>	4U : 450 : 540 <sup>3)</sup>	6U : 450 : 540 <sup>3)</sup>
<b>Weight</b>	20Kg	25Kg	25Kg	48Kg
<b>Protections</b>	OVP,UVP;OTP	OVP,UVP;OTP	OVP,UVP;OTP	OVP,UVP;OTP
<b>Operation Temperature Range</b>	0-35°C	0-35°C	0-35°C	0-35°C
<b>RS232</b>	YES	YES	YES	YES
<b>RS485</b>	OPTION	OPTION	OPTION	OPTION
<b>LAN</b>	OPTION	OPTION	OPTION	OPTION
<b>Amplifier Options</b>	<b>99101135</b>	<b>99101135</b>	<b>99101135</b>	<b>99101135</b>
<b>DC options</b>	<b>99101120</b>	<b>99101120</b>	<b>99101120</b>	<b>99101120</b>
<b>RS485 Options</b>	<b>99101115</b>	<b>99101115</b>	<b>99101115</b>	<b>99101115</b>

<sup>1)</sup> With resistive load

<sup>2)</sup> DC options is available

<sup>3)</sup> Dimensions with output connectors

<sup>4)</sup> You can set up 320Hz by serial command, but with derating of performance and maximum voltage  
f.s. stand for Full Scale  
s.v. stand for set value



## RACK POWER SUPPLY SINGLE PHASE

	RPS/M 1K	RPS/M 2.5K	RPS/M 5K	RPS/M 10K
<b>Code</b>	<b>99112133</b>	<b>99112173</b>	<b>99112423</b>	<b>99112823</b>
<b>Power</b>	1000VA	2500VA	5000VA	10000VA
<b>Output</b>	Single phase	Single phase	Single phase	Single phase
<b>Characteristic</b>	Not isolated	Not isolated	Not isolated	Not isolated
<b>Voltage</b>				
<b>Range</b>	300V	300V	300V	300V
<b>Accuracy</b>	<0.5% f.s.	<0.5% f.s.	<0.5% f.s.	<0.5% f.s.
<b>Distortion</b>	<0.3% <sup>1)</sup>	<0.3% <sup>1)</sup>	<0.3% <sup>1)</sup>	<0.3% <sup>1)</sup>
<b>Stability of the output voltage</b>	<0.1% f.s.	<0.1% f.s.	<0.1% f.s.	<0.1% f.s.
<b>Recovery time of the waveform</b>	<10ms	<10ms	<10ms	<10ms
<b>Maximum Compensated drop</b>	5% s.v.	5% s.v.	5% s.v.	5% s.v.
<b>Recovery-time of drop on wires</b>	<200ms	<200ms	<200ms	<200ms
<b>Output voltage resolution</b>	0.025% f.s.	0.025% f.s.	0.025% f.s.	0.025% f.s.
<b>Maximum current</b>				
<b>RMS continuous <sup>1)</sup></b>	3.3A	8.3A	16.7A	33.4 A
<b>Inrush Current (3 seconds)<sup>1)</sup></b>	6.9A	16.7A	33.4A	66.8 A
<b>Frequency</b>				
<b>Output frequency range</b>	DC, 10Hz - 80Hz <sup>3)</sup>	DC, 10Hz - 80Hz <sup>3)</sup>	DC, 10Hz - 80Hz <sup>3)</sup>	DC, 10Hz - 80Hz <sup>3)</sup>
<b>Range of synchronization</b>	45Hz - 65Hz	45Hz - 65Hz	45Hz - 65Hz	45Hz - 65Hz
<b>Frequency resolution</b>	0.02Hz	0.02Hz	0.02Hz	0.02Hz
<b>Frequency precision</b>	100ppm	100ppm	100ppm	100ppm
<b>Supply</b>				
<b>Input supply</b>	230Vac ±10% 1Ph	230Vac ±10% 1Ph	230Vac ±10% 1Ph	400Vac±10% 3N
<b>Maximum Input current</b>	7.5 A	18 A	35A	24A/41A neutral
<b>Input Frequency</b>	50Hz-60Hz	50Hz-60Hz	50Hz-60Hz	50Hz-60Hz
<b>Other</b>				
<b>Size (H : W : D)</b>	2U : 450 : 440 <sup>2)</sup>	4U : 450 : 540 <sup>2)</sup>	4U : 450 : 540 <sup>2)</sup>	6U : 450 : 540 <sup>2)</sup>
<b>Weight</b>	12Kg	25Kg	25Kg	48Kg
<b>Protections</b>	OVP,UVP;OTP	OVP,UVP;OTP	OVP,UVP;OTP	OVP,UVP;OTP
<b>Operation Temperature Range</b>	0-35°C	0-35°C	0-35°C	0-35°C
<b>RS232</b>	YES	YES	YES	YES
<b>RS485</b>	OPTION	OPTION	OPTION	OPTION
<b>LAN</b>	OPTION	OPTION	OPTION	OPTION
<b>Amplifier Options</b>	<b>99101135</b>	<b>99101135</b>	<b>99101135</b>	<b>99101135</b>
<b>DC options</b>	INCLUDED	INCLUDED	INCLUDED	INCLUDED
<b>RS485 Options</b>	99101115	99101115	99101115	99101115
<b>Digital IO</b>	Yes	Yes	Yes	Yes

<sup>1)</sup> With resistive load

<sup>2)</sup> Dimensions with output connectors

<sup>3)</sup> You can set up 320Hz by serial command, but with derating of performance and maximum voltage

f.s. stand for Full Scale

s.v. stand for set value



## RACK POWER SUPPLY 3-PHASE

RPS 20K	
Code	99113553
Configuration	Continuous Inrush
Power	20KVA 15K/30S
Output	1phase / 3phase
Characteristic	External transformer necessary
Voltage	
Range	150V/300V <sup>1)</sup>
Accuracy	<0.5% f.s.
Distortion	<0.6% <sup>2)</sup>
Stability of the output voltage	<0.1% f.s.
Recovery time of the waveform	<10ms
Maximum Compensated drop	5% s.v.
Recovery-time of drop on wires	<200ms
Output voltage resolution	0.025% f.s.
Maximum current single phase	
Configuration	Continuous Inrush
Range	150V 300V 150V 300V
RMS continuous <sup>2)</sup>	133A 67A 101A 50A
Inrush Current (3 seconds) <sup>2)</sup>	No inrush 203A 102A
Maximum current three phase	
Configuration	Continuous Inrush
Range	150V 300V 150V 300V
RMS continuous <sup>2)</sup>	45A 22A 34A 17A
Inrush Current (3 seconds) <sup>2)</sup>	No inrush 68A 34A
Frequency	
Output frequency range	50Hz <sup>3)</sup> - 80Hz <sup>3)</sup>
Range of synchronization	45Hz - 65Hz
Frequency resolution	0.02Hz
Frequency precision	100ppm
Supply	
Input supply	400Vac±10% 3PH
Maximum Input current	50A
Input Frequency	50Hz-60Hz
Other	
Size (H : W : D)	8U : 84TE : 500
Weight	50Kg
Protections	OVP;UVP;OTP
Operation Temperature Range	0-35°C
RS232	YES
RS485	OPTION
LAN	OPTION



<sup>1)</sup> Output voltage of the transformer

<sup>2)</sup> With resistor load

<sup>3)</sup> It is possible on remote interface to set 10Hz but you must decrease the maximum voltage.

<sup>4)</sup> You can set up 320Hz by serial command, but with derating of performance and maximum voltage

f.s. stand for Full Scale

s.v. stand for set value

## Comparison table of the Series

	Opt	XPS/M	TPS/M/D	TPS/M	CPS/M	RPS/M	XPS/T	TPS/T	CPS/T	HPS/T	HPS/P	RPS/T
<b>Output Configuration</b>		1 ph	1 ph	1 ph	1 ph	1 ph	1 ph <sup>9)</sup> +3 ph	1 ph +3 ph <sup>1)</sup>	1 ph +3 ph	3 phase	3 phase	1 ph +3 ph
<b>Double Range</b>			✓	✓			✓	✓	✓	✓	✓	Only command
<b>Isolated</b>							✓	✓		✓	✓	With external transformer
<b>Output inrush capabilities</b>		✓	✓	✓	✓	✓	✓	Depends from the models	✓	Depends from the models	✓	✓
<b>Parallel Configuration</b>	•							Option <sup>2)</sup>			✓	
<b>THD<sup>3)</sup></b>		0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.6%	0.6%	0.6%	0.6%
<b>Capability of change standard voltage</b>								✓	✓	✓	✓	
<b>Unbalanced load capability</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Floating configuration</b>	•						Option	Option		Option	Option	
<b>Output impedance</b>		Low	Very Low	Very Low	Low	Low	Low	Very Low	Medium	Medium	Medium	Medium
<b>Independent phase L1, L2, L3</b>							✓	✓	✓		✓	✓
<b>Dc capabilities</b>	•	✓	✓	Option	Option	✓	✓					
<b>Output frequency</b>		10-1000	10-80 <sup>5)</sup>	10-80 <sup>5)</sup>	10-80 <sup>5)</sup>	10-80 <sup>5)</sup>	10-1000	40 <sup>6)</sup> -80 <sup>5)</sup>	50 <sup>6)</sup> -80 <sup>5)</sup>	50 <sup>6)</sup> -80 <sup>5)</sup>	50 <sup>6)</sup> -80 <sup>5)</sup>	50 <sup>6)</sup> -80 <sup>5)</sup>
<b>Programmable Limit of current</b>		✓	✓			✓	✓					
<b>Input Configuration</b>		1 ph / 3ph+n <sup>7)</sup>	1 ph / 3ph+n <sup>7)</sup>	1 ph / 3ph+n <sup>7)</sup>	1 ph / 3ph+n <sup>7)</sup>	1 ph / 3ph+n <sup>7)</sup>	3ph	3ph	3ph	3ph	3ph	3ph
<b>Regenerative</b>	•						Option					
<b>Enable switch</b>	•	✓	✓	Option	Option		✓	Option	Option	Option	Option	
<b>RS232</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>RS485</b>	•	✓	✓	Option	Option	Option	✓	Option	Option	Option	Option	Option
<b>ETHERNET</b>	•	✓	✓	Option	Option	Option	✓	Option	Option	Option	Option	Option
<b>Propriety protocol</b>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>SCPI</b>		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
<b>Modbus</b>		✓	✓				✓					
<b>Modbus TCP-IP</b>		✓	✓				✓					
<b>Input 0-10V for amplitude</b>	•	Option	Option	Option	Option	✓	Option	Option	Option	Option	Option	Option
<b>Digital I/O</b>						✓						
<b>PC remote software</b>		✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>
<b>Driver LabView</b>		✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>	✓ <sup>8)</sup>
<b>USB store data</b>		✓	✓				✓					

1) The 99110600 has not the single phase

2) Options Not available after purchasing

3) With linear load

4) Only on 300V range

5) You can set up 320Hz by serial command, but with derating of performance and maximum voltage

6) You can set up to 10Hz with maximum voltage derating

7) It depends from the models

8) Only for proprietary protocol

9) Options available

07	19/08/21	XPS/M and TPS/M/D family
06C	06/10/20	XPS/T family
06B	14/03/19	Table of comparison of the models
06A	14/11/18	Update manual RPS single-phase
06	07/06/18	New Family RPS singlephase
05	03/07/16	HPS 200K PARALLEL
04B	15/10/15	RPS Brochure link + RS485 OPTION
04A	09/10/15	Graphics and link update
04	05/05/15	New machine TPS/T 60K 50K120S with high inrush capabilities update weight HPS60
03C	30/01/15	Update APS option code for TPS and CPS, added RS485 option for CPSM, correct size CPST
03B	14/11/14	Update weight CPS1K, Update dimension CPS5KT, update current CPSM series
03A	17/03/14	Update weight and input current CPS family
03	05/03/14	Update HPS family data e some more
02	04/07/13	Update options and some data. New machine RPS20K
01	16/10/12	Updating weight CPS 5KVAT
00	02/08/12	First emission
<b>Rev.</b>	<b>Date</b>	<b>Description</b>