Product Datasheet
SMG DC-DC Converters

Name	SMG100								SMG200					
Model Article no.	12/12	12/24	24/12	24/24	24/48	48/12	48/24	48/48	12/12	12/24	24/12	24/24	24/48	48/12
Converter type	galvanic insulation and votage stabilizing								galvanic isolation and voltage stabilizing					
Input														
Nominal input voltage	12V	12V	24V	24V	24V	48V	48V	48V	12V	12V	24V	24V	24V	48V
Input range, full output specifications	9V..18V	9V..18V	20V..35V	20V..35V	20V..35V	30V..60V	30V..60V	30V..60V	9V..18V	9V..18V	20V..35V	20V..35V	20V..35V	30V..60V
Input range, no defects	0V..20V	0V..20V	0V..35V	0V..35V	0V..35V	0V..60V	0V..60V	0V..60V	0V..20V	0V..20V	0V..35V	0V..35V	0V..35V	0V..60V
Output														
Nominal output voltage	12.5V	24.5V	12.5V	24.5V	48V	12.5V	24.5V	48V	12.5V	24.5V	12.5V	24.5V	48V	12.5V
Voltage adjustment	yes								yes					
Stabilized	1%								1%					
Output voltage ripple, peakpeak	1%								1%					
Maximum output power	200W								200W					
Continue output power	100W								200W					
Maximum output current	16A	8A	16A	8A	4A	16A	8A	4A	16A	8A	16A	8A	4A	16A
Continue output current	8A	4A	8A	4A	2A	8A	8A	4A	16A	8A	16A	8A	4A	16A
Continue output current at 40°C	8A	4A	8A	4A	2A	8A	8A	4A	16A	8A	16A	8A	4A	16A
General														
Efficiency	+/_87%								+/_87%					
No load consumption	+/_25mA								+/_25mA					
Ambient operating temperature	-10°C .. +40°C, de-rating to 60°C								-10°C .. +40°C, de-rating to 60°C					
Storage temperature	-25°C .. +85°C								-25°C .. +85°C					
Operating humidity	95% max, non-condensing								95% max, non-condensing					
Galvanic insulation	yes								yes					
Cooling fan	No								yes					
Protections														
Overcurrent / short circuit	limited by current sensing circuit to I-max								limited by current sensing circuit to I-max					
Over heat	yes								yes					
Features														
Microprocessor controlled	yes								yes					
undervoltage	yes								yes					
overvoltage	yes								yes					
3 stage charger	yes with charger software								yes with charger software					
Programmable	yes								yes					
Smart undervoltage detection	Yes with charger software								Yes with charger software					
lithium ion charger	Yes with ion charger software								Yes with ion charger software					
Mechanical														
Connection input/output	Faston 6,3mm								Faston 6,3mm					
Dimensions (H*W*D)	50*151*88mm								50*175*88mm					
Mounting holes	dia 4mm 58*143mm								dia 4mm 58*168mm					
Weight	0,51Kg								0,59Kg					
cabinet	anodized aluminium black, ABS Blend end								anodized aluminium black, ABS Blend end cover					
Color	Black								Black					

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Product Datasheet
SMG DC-DC Converters

Name			SMG**360**							
Model	48/24	48/48	12/12	12/24	24/12	24/24	24/48	48/12	48/24	48/48
Article no.										
Converter type	galvanic isolation and voltage stabilizing									
Input										
Nominal input voltage	48V	48V	12V	12V	24V	24V	24V	48V	48V	48V
Input range, full output specifications	30V..60V	30V..60V	9V..18V	9V..18V	20V..35V	20V..35V	20V..35V	30V..60V	30V..60V	30V..60V
Input range, no defects	0V..60V	0V..60V	0V..20V	0V..20V	0V..35V	0V..35V	0V..35V	0V..60V	0V..60V	0V..60V
Output										
Nominal output voltage	24.5V	48V	12.5V	24.5V	12.5V	24.5V	48V	12.5V	24.5V	48V
Voltage adjustment	yes									
Stabilized	1%									
Output voltage ripple, peakpeak	1%									
Maximum output power	360W									
Continue output power	360W									
Maximum output current	8A	4A	30A	15A	30A	15A	8A	30A	15A	8A
Continue output current	8A	4A	30A	15A	30A	15A	8A	30A	15A	8A
Continue output current at 40°C	8A	4A	30A	15A	30A	15A	8A	30A	15A	8A
General										
Efficiency	+/_87%									
No load consumption	+/_25mA									
Ambient operating temperature	-10°C .. +40°C, de-rating to 60°C									
Storage temperature	-25°C .. +85°C									
Operating humidity	95% max, non-condensing									
Galvanic insulation	yes									
Cooling fan	Yes									
Protections										
Overcurrent / short circuit	limited by current sensing circuit to I-max									
Over heat	yes									
Features										
Microprocessor controlled	yes									
undervoltage	yes									
overvoltage	yes									
3 stage charger	yes with charger software									
Programmable	yes									
Smart undervoltage detection	Yes with charger software									
lithium ion charger	Yes with ion charger software									
Mechanical										
Connection input/output	Faston 6,3mm									
Dimensions (H*W*D)	83*190*133mm									
Mounting holes	dia 4mm 91*182mm									
Weight	1,37Kg									
cabinet	anodized aluminium blanc, ABS Blend end cover									
Color	Black									

SMG100 SMG200

SMG360

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