MORNINGSTAR PROFESSIONAL SERIES
World's Leading Solar Controllers & Inverters

International Product List - 2022

SureSine™ INVERTERS

Item Number:	Description:	
SI-300-115V-UL	SureSine-300 watt (115 volt, 60hz AC) Solar Inverter with UL	
SI-300-220V	SureSine-300 watt (220 volt, 50hz AC) Solar Inverter	
See ACCESSORIES for SureSine:	*RM-1, also: EMC-1, MSC, RD-1, RSC-1, UMC-1*	*2-year warranty for SureSine*

TriStar™ HV-MPPT - High Voltage Solar Charge Controllers

Item Number:	Description:	
TS-MPPT-60-600V-48	**TriStar MPPT-60 amp, 600V DC, for 48V Battery, with Standard Conduit Box** *(includes RTS). Meter Display sold separately.*	
TS-MPPT-60-600V-48-DB	**TriStar MPPT-60 amp, 600V DC, for 48V Battery, with Grounded Disconnect Box** *(includes RTS, PV disconnect, battery circuit breaker, 4 bus bars & 2 DIN rails). Meter Display sold separately.*	
TS-MPPT-60-600V-48-DB-TR	**TriStar MPPT-60 amp, 600V DC, for 48V Battery, with DC Transfer Switch Box** *(includes RTS, PV transfer switch, battery circuit breaker, 4 bus bars & 2 DIN rails). Meter Display sold separately.*	
TS-MPPT-60-600V-48-DB-TR-GFPD	**TriStar MPPT-60 amp, 600V DC, for 48V Battery, with DC Transfer Switch Box & pre-wired GFPD-600V** *(includes RTS, PV transfer switch, battery circuit breaker, 4 bus bars & 2 DIN rails). Meter Display sold separately.* **** END OF LIFE (EOL) - Limited Availability ****	
See ACCESSORIES for TS-HV-MPPT:	*TS-M-2-600V, TS-RM-2, also: EMC-1, GFPD-600V, HUB-1, RD-1, RSC-1*	*5-year warranty for TS-HV-MPPT*

TriStar™ MPPT Solar Charge Controllers

Item Number:	Description:	
TS-MPPT-30	**TriStar MPPT-30 amp (12/ 24/ 36 or 48V)** *(includes RTS). Meter Display sold separately.*	
TS-MPPT-45	**TriStar MPPT-45 amp (12/ 24/ 36 or 48V)** *(includes RTS). Meter Display sold separately.*	
TS-MPPT-60	**TriStar MPPT-60 amp (12/ 24/ 36 or 48V)** *(includes RTS). Meter Display sold separately.*	
TS-MPPT-60M	**TriStar MPPT-60 amp with Meter (12/ 24/ 36 or 48V)** *(includes RTS).*	
See ACCESSORIES for TS-MPPT:	*TS-M-2, TS-RM-2, also: EMC-1, GFPD-150V, HUB-1, RD-1, RSC-1*	*5-year warranty for TS-MPPT*

ProStar™ MPPT Solar Charge Controllers

Item Number:	Description	
PS-MPPT-25	**ProStar MPPT 25 amp (12/ 24V)**	
PS-MPPT-25M	**ProStar MPPT 25 amp with Meter (12/ 24V)**	
PS-MPPT-40	**ProStar MPPT 40 amp (12/ 24V)**	
PS-MPPT-40M	**ProStar MPPT 40 amp with Meter (12/ 24V)**	
See ACCESSORIES for PS-MPPT:	*PS-MPPT-WB, RM-1, also: EMC-1, HUB-1, MSC, RD-1, RSC-1, RTS, UMC-1*	*5-year warranty for PS-MPPT*

SunSaver™ MPPT Solar Charge Controllers

Item Number:	Description:	
SS-MPPT-15L	**SunSaver MPPT 15 amp (12/ 24V)**	
See ACCESSORIES for SS-MPPT:	*RM-1, also: DIN-1, EMC-1, HUB-1, MSC, RD-1, RSC-1, RTS, UMC-1*	*5-year warranty for SS-MPPT*

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TriStar™ PWM Solar Charge Controllers

Item Number:	Description:
TS-45	TriStar-45 amp (12/ 24 or 48V). *Meter Display sold separately.*
TS-60	TriStar-60 amp (12/ 24 or 48V). *Meter Display sold separately.*
TS-60M	TriStar-60 amp with Meter (12/ 24 or 48V)
See ACCESSORIES for TriStar:	*TS-M-2, TS-RM-2, also: EMC-1, HUB-1, RD-1, RSC-1, RTS* *5-year warranty for TriStar*

*ProStar™ PWM Solar Charge Controllers - Gen 3**

Item Number:	Description:
PS-15	ProStar-15 amp (12/ 24V)
PS-15M	ProStar-15 amp with Meter (12/ 24V)
PS-30	ProStar-30 amp (12/ 24V)
PS-30M	ProStar-30 amp with Meter (12/ 24V)
See ACCESSORIES for ProStar:	*RM-1, also: EMC-1, GFPD-150V, HUB-1, MSC, RD-1, RTS, UMC-1* *5-year warranty for ProStar*

SunSaver™ PWM Solar Charge Controllers

Item Number:	Description:
SS-6-12V	SunSaver-6 amp (12V)
SS-6L-12V	SunSaver-6 amp with LVD (12V)
SS-10-12V	SunSaver-10 amp (12V)
SS-10L-12V	SunSaver-10 amp with LVD (12V)
SS-10L-24V	SunSaver-10 amp with LVD (24V)
SS-20L-12V	SunSaver-20 amp with LVD (12V)
SS-20L-24V	SunSaver-20 amp with LVD (24V)
See ACCESSORIES for SunSaver:	*DIN-1* *L = LVD, Low Voltage Disconnect* *5-year warranty for SunSaver*

SunSaver™ Duo PWM Solar Charge Controllers

Item Number:	Description:
SSD-25	SunSaver-Duo 25 amp (12V)
SSD-25RM	SunSaver-Duo 25 amp (12V) with Remote Meter (RM-1 Kit)
See ACCESSORIES for SunSaver Duo:	*RM-1, also: DIN-1, EMC-1, MSC, RD-1, RSC-1, RTS, UMC-1* *5-year warranty for SunSaver Duo*

SunLight™ PWM Solar Charge Controllers			
Item Number:	**Description:**		
SL-10L-12V	**SunLight-10 amp with LVD (12V)**		
SL-10L-24V	**SunLight-10 amp with LVD (24V)**		
SL-20L-12V	**SunLight-20 amp with LVD (12V)**		
SL-20L-24V	**SunLight-20 amp with LVD (24V)**		
See ACCESSORIES for SunLight:	***DIN-1***	***L = LVD, Low Voltage Disconnect***	***5-year warranty for SunLight***

SunKeeper™ PWM Solar Charge Controllers		
Item Number:	**Description:**	
SK-6	**SunKeeper-6 amp (12V)**	
SK-12	**SunKeeper-12 amp (12V)**	
See ACCESSORIES for SunKeeper:	***RTS***	***5-year warranty for SunKeeper***

SunGuard™ PWM Solar Charge Controllers		
Item Number:	**Description:**	
SG-4	**SunGuard-4 amp (12V)**	
		5-year warranty for SunGuard

Operator Manuals, Technical Notes & Specifications for all Morningstar Products are available at: www.morningstarcorp.com

EcoBoost™ MPPT Solar Charge Controllers	*See Accessories: RTS*
Item Number:	**Description:**
EB-MPPT-20	EcoBoost MPPT 20 amp (12/ 24V)
EB-MPPT-20M	EcoBoost MPPT 20 amp with Meter (12/ 24V)
EB-MPPT-30	EcoBoost MPPT 30 amp (12/ 24V)
EB-MPPT-30M	EcoBoost MPPT 30 amp with Meter (12/ 24V)
EB-MPPT-40	EcoBoost MPPT 40 amp (12/ 24V)
EB-MPPT-40M	EcoPulse-40 amp with Meter (12/ 24V)
** EcoBoost Products for use outside of USA & Canada only*	*2-year warranty for EB-MPPT*

EcoPulse™ PWM Solar Charge Controllers	*See Accessories: RTS*
Item Number:	**Description:**
EC-10	EcoPulse-10 amp (12/ 24V)
EC-10M	EcoPulse-10 amp with Meter (12/ 24V)
EC-20	EcoPulse-20 amp (12/ 24V)
EC-20M	EcoPulse-20 amp with Meter (12/ 24V)
EC-30	EcoPulse-30 amp (12/ 24V)
EC-30M	EcoPulse-30 amp with Meter (12/ 24V)
** EcoPulse Products for use outside of USA & Canada only*	*2-year warranty for EC*

SHS Solar Charge Controllers	
Item Number:	**Description:**
SHS-6	SHS-6 amp with LVD (12V)
SHS-10	SHS-10 amp with LVD (12V)
SHS-6-NL	SHS-6 amp with LVD & Dusk-Dawn Lighting Control (12V)
SHS-10-NL	SHS-10 amp with LVD & Dusk-Dawn Lighting Control (12V)
** SHS Products for use outside of USA & Canada only*	*2-year warranty for SHS*

ACCESSORIES	
Item Number:	**Description:**
DIN-1	**DIN Rail Mounting Clips** (2 clips per controller). For use with: SunLight, SunSaver, SunSaver Duo or SS-MPPT controllers
EMC -1	**Ethernet Meterbus Converter**. For use with: Suresine Inverter, ALL MPPT, ALL TS, PS (Gen 3) or SS-Duo controllers
GFPD-150V	**Ground Fault Protection Device for 150 volt.** For use with: All TS-MPPT below 600 V
GFPD-600V	**Ground Fault Protection Device for 600 volt.** For use with: TS-MPPT-600V
HUB-1	**MeterHub.** For use with: PS-MPPT, SS-MPPT, TS, TS-MPPT, TS-M-2, TS-RM-2 or Relay Driver (RD-1)
MSC	**PC Meterbus Adapter.** For use with: PS-MPPT, SS-Duo, SS-MPPT or SS Inverter
PS-MPPT-WB	**Wire Box for ProStar MPPT.** For use with: PS-MPPT
RD-1	**Relay Driver.** For use with: PS-MPPT, PS(Gen3), SS Inverter, SS-Duo, SS-MPPT, TS, TS-MPPT, TS-MPPT-600V or other systems
RM-1	**Remote Meter.** For use with: PS-MPPT, PS(Gen3), SS-Duo, SS-MPPT or SS Inverter
RSC-1	**EIA-485/RS-232 Communications Adapter.** For use with: any device with a RS-232 port; converts port to EIA-485 serial connector
RTS	**Remote Temperature Sensor.** For use with: PS, PS-MPPT, SK, SS-Duo, SS-MPPT, TS & EcoPulse *Note: RTS included with all TS-MPPT units
TS-M-2	**TriStar Digital Meter.** For use with: TS-45, TS-60, TS-MPPT-30, TS-MPPT-45 & TS-MPPT-60
TS-M-2-600V	**TriStar 600V Digital Meter.** For use with: TS-MPPT-600V units only
TS-RM-2	**TriStar Remote Digital Meter.** For use with: ALL TS, TS-MPPT, and TS-MPPT-600V
UMC-1	**USB MeterBus Adapter (Programming Cable).** For use with: PS, PS-MPPT, SS-Duo, SS-MPPT or SS Inverter
	5-year warranty for Accessories

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